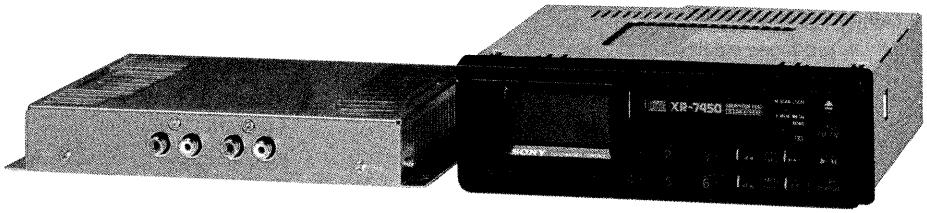
XR-7450

SERVICE MANUAL

AEP Model



Model Name Using Similar Mechanism	XR-7201/7202
Tape Transport Mechanism Type	MG-55C-31

SPECIFICATIONS

Power amplifier section (hide-away amplifier)

Outputs — Speaker outputs (sure seal connectors)
Inputs — Line inputs (phono jacks)
Speaker impedance — 3.2 – 8 ohms
Maximum power output — 30 watts per channel at 4 ohms* (4 channels driven)
*Measured at 14.4 V

Cassette player section

Tape track — 4-track 2-channel stereo
Frequency response — 30 – 20,000 Hz

Signal-to-noise ratio

Cassette type	Dolby B	Dolby C	Dolby off
TYPE II, IV	66 dB	76 dB	58 dB
TYPE I	63 dB	73 dB	55 dB

Wow and flutter — 0.09% (WRMS)

Tuner section

FM

Tuning range — 87.5 – 108.0 MHz
Antenna terminal — External antenna connector
Intermediate frequency — 10.7 MHz
Usable sensitivity — 12 dBf (75 ohms)
Selectivity — 75 dB at 400 kHz
Signal-to-noise ratio — 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz — 0.5% (stereo), 0.3% (mono)
Separation — 35 dB at 1 kHz
Frequency response — 30 – 15,000 Hz
Capture ratio — 2 dB

AM

AM tuning interval — 9 kHz/10 kHz switchable
Tuning range — European and other countries 531 – 1,602 kHz (at 9 kHz step)
Central and South American countries 530 – 1,620 kHz (at 10 kHz step)
Antenna terminal — External antenna connector
Intermediate frequency — 450 kHz
Sensitivity — 35μV

General

Output lead — Power antenna relay control lead
Tone controls — Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Loudness — +7 dB at 100 Hz
+7 dB at 10 kHz
Power requirements — 12 V DC car battery (negative ground)
Dimensions
Main unit (without bracket): Approx. 178 × 50 × 153 mm (w/h/d) not incl. projecting parts and controls
Hide-away amplifier: Approx. 178 × 30 × 135 mm (w/h/d) not incl. projecting parts
Mounting dimensions (Main unit) — Approx. 182 × 53 × 145 mm (w/h/d) not incl. projecting parts and controls
Weight
Main unit: Approx. 1.9 kg
Hide-away amplifier: Approx. 0.8 kg
Accessories supplied — Mounting hardware (1 set), Connecting cord (2)

Design and specifications subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

FM/AM CASSETTE CAR STEREO

SONY®

Features

Tuner section
- SSIR (Sony Super Interference Rejection) PLL Synthesizer tuner.
- Automatic memory function stores a total of 24 stations in memory quickly and easily.
- Memory scan function scans preset stations for five seconds in order.

Cassette deck section
- Full logic control feather touch mechanism.
- Amorphous head which produces clear sound.
- The auto-reverse function changes the tape direction automatically.
- The C-type Dolby NR system is incorporated as well as the B-type Dolby NR system.
- Intro-play scans the beginning of each selection sequentially.
- Repeat play plays the selection being played repeatedly.
- Blank skip function automatically skips the blank portion longer than eight seconds and plays back the next selection.

CD section (when the optional Sony CD changer is connected)
- The intro-play function plays the first ten seconds of each selection on every disc.
- The repeat play function enables a repeat play of the selection you are now listening to.
- The disc scan function plays the first ten seconds of the first selection on each disc.
- The shuffle play function plays selections in random order.
- Manual search allows you to search for a desired point in a selection.

General
- Composed of the main unit and the hide-away 4-channel power amplifier with a maximum power output of 30 W per channel.
- SUB WOOFER output for powerful bass reproduction system.
- Slide-out security bracket allows you to take the unit away with you when you leave your car. You can also choose the fixed mounting with the supplied hardware.

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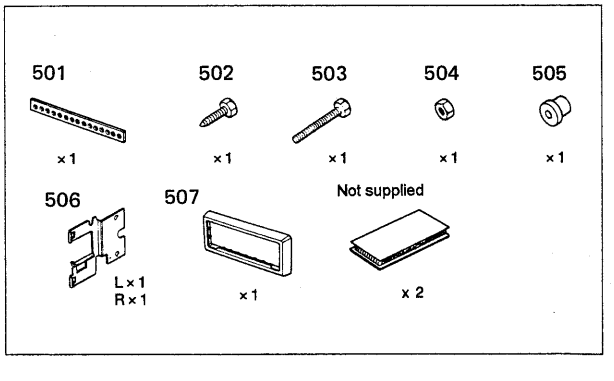
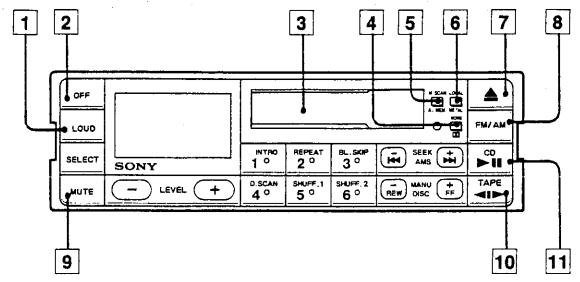
MOUNTING HARDWARE

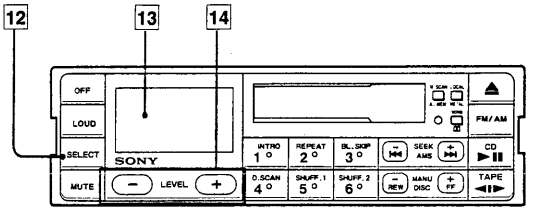
501	3-310-655-01	SUPPORT (ND), FITTING
502	3-302-126-01	SCREW, TAPPING (DIA. 5X20)
503	7-682-583-04	SCREW +P 5X40
504	7-684-025-04	N 5, TYPE 2
505	3-349-410-01	BUSHING
506	*3-349-456-01	BRACKET (FIX,LEFT)
	*3-349-457-01	BRACKET (FIX,RIGHT)
507	*3-349-458-01	FRAME, ORNAMENTAL



SECTION 1
GENERAL

Location and Function of Controls





Refer to the page in ● for details.

1 LOUD (loudness) button
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

2 OFF (power off) button
Press to turn off the unit.

3 Cassette insertion door

	During radio reception	During tape playback
4	MONO (monaural) button ❼	□□ button ❼
5	M.SCAN (memory scan)/ A.MEM (automatic memory) button ❽	—
6	LOCAL button ❼	METAL (metal/CrO_2) button ❼

7 ≙ (eject) button

8 FM/AM (radio on/band select) button

9 MUTE button
Press to momentarily mute the sound. Press again to restore the same sound level as before.

10 TAPE ◄II► (tape playback/ transport direction change) button ❼

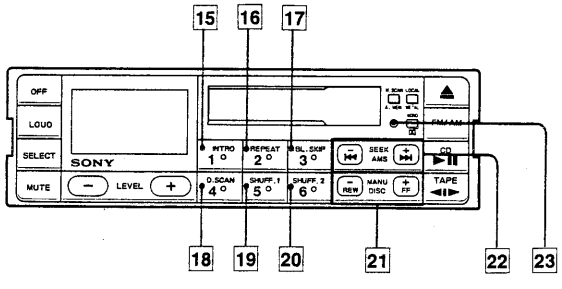
11 CD ►II (disc play/pause) button ❽

12 SELECT (control mode select) button
Press to select the desired control mode, BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

13 Display window

14 LEVEL (volume/bass/treble/balance/ fader control) button
LEVEL button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode goes back to the volume control mode.

Display window	Control mode	LEVEL (−) Press	LEVEL (+) Press
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speaker volume	To decrease the left-speaker volume
FAD	Fader control	To decrease the rear-speaker volume	To decrease the front-speaker volume
VOL	Volume control	For less volume	For more volume



	During tape playback	During disc play	During radio reception
15	INTRO button ❾ ❶		Preset number buttons ❷
16	REPEAT button ❾ ❷		
17	BL. SKIP (blank skip) button ❾	—	
18	—	D.SCAN (disc scan) button ❹	
19	—	SHUFF. (shuffle) 1 button ❺	
20	—	SHUFF. (shuffle) 2 button ❻	
21	FF/REW (fast forward/ rewind) button ❸	DISC (disc change) button ❸ / Manual search button (when keeping it pressed longer than 0.5 sec.) ❸	MANU (manual tuning) button ❸
22	AMS* button ❾ ❸		SEEK (automatic tuning) button ❸

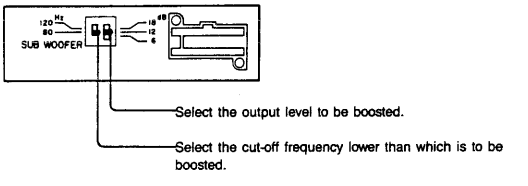
23 Reset button
Press this button when no other button functions.

*Automatic Music Sensor

Note: Mute function, intro-play, repeat play, disc scan, and shuffle play (1 and 2) will be canceled when you press the OFF button or when you keep the ignition key set to the off position for more than eight seconds. Blank skip function will be maintained until you press the BL. SKIP button again.

When Connecting the Sub-woofer Speaker System

The SUB WOOFER output is provided for the powerful bass reproduction. When you connect the power amplifier for the sub-woofer speaker system with this unit, set the SUB WOOFER switches on the rear to the appropriate positions.



For the detailed information on connections, see the supplied installation/connections manual.

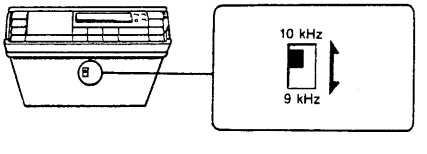
Note on AM Tuning Interval

The interval is factory-set to 9 kHz.
If, however, AM frequency allocation might be different from that in the area this car stereo is used, change the AM tuning interval or consult the nearest Sony dealer.

9 kHz area	European, Asian, African and Oceanian countries
10 kHz area	North, Central and South America

To change the AM tuning interval

1 Remove the main unit from the bracket.
2 Set the AM tuning interval selector at the bottom of the unit to the proper position. Use a ball-point pen or a similar object.



3 Install the main unit to the bracket.
4 Press the reset button after setting the ignition key to the accessory position.

Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Note on the carrying handle
The unit can be installed with or without the carrying handle. When you want to take the unit with you when you leave your car, install the unit with the carrying handle (see instruction 3A). If not, install it without the carrying handle.

Instalación

Precauciones

- Elija cuidadosamente la ubicación de montaje de forma que no interfiera en las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a temperaturas elevadas, como a la luz solar directa o al aire del aparato de calefacción, y donde pueda quedar expuesta al polvo, suciedad, o vibraciones excesivas.
- Para lograr una instalación segura y firme, emplee solamente la ferretería de montaje.

Nota sobre el asa de transporte
La unidad podrá instalarse con o sin asa de transporte. Cuando dese llevar consigo la unidad al abandonar el automóvil, instálela con el asa de transporte (consulte la instrucción 3A). En caso contrario, instálela sin el asa.

Montage

Voorzorgsmaatregelen

- Installeer het apparaat niet op een plaats waar het u bij besturing van de auto zou kunnen hinderen.
- Installeer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen zoals van direkt zonlicht of de warme luchtstroom van de autoverwarming, aan sterke trillingen, of waar het in kontakt komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluiten de bijgeleverde montage-onderdelen.

Opmerking betreffende de draagbeugel
Het apparaat kan met of zonder draagbeugel geïnstalleerd worden. Wanneer u bij het verlaten van de auto het apparaat met u mee wilt nemen, installeer dan het apparaat met draagbeugel (Zie aanwijzing 3A.). Mocht dit niet het geval zijn, installeer het apparaat dan zonder draagbeugel.

Montering

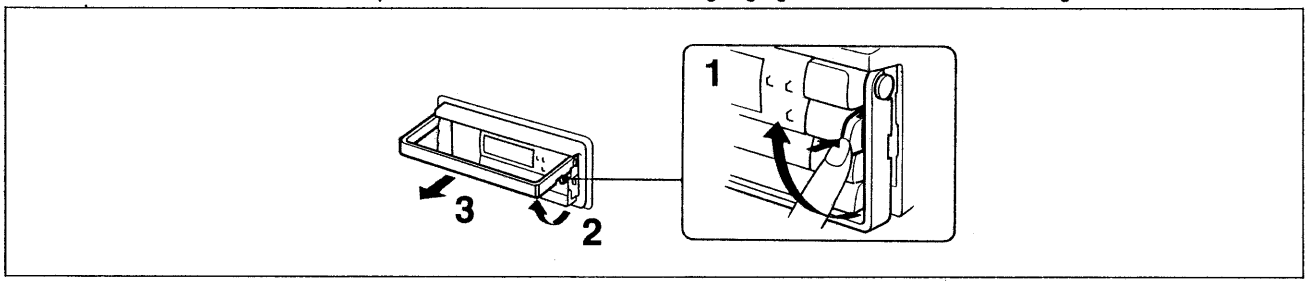
Att observera

- Var noga när du väljer bilstereons monteringsläge i bilen. Välj läget så att bilstereon inte utgör ett hinder vid bilkörning.
- Montera inte bilstereon på platser, där den utsätts för värme, som t ex solsken och varmluft, eller där den utsätts för smuts, damm och/eller vibrationer.
- Använd endast de medföljande monteringstillbehören för att vara säker på att bilstereon monteras på säkert och rätt sätt.

Att observera angående handtaget
Möjligt att montera bilstereon med eller utan handtaget. Montera bilstereon med handtaget fäst i bilstereon när du vill ta bilstereon med dig efter bilens parkering (vi hänvisar till anvisningarna enligt illustrationen 3A). Montera i annat fall bilstereon utan handtaget.

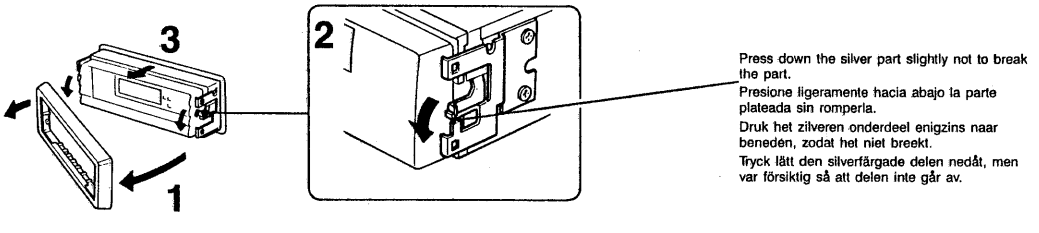
To Remove the Unit

When installed with the carrying handle



To prevent the unit from being stolen
When you leave your car, remove the unit from the bracket and take it away with you.

When installed without the carrying handle



Press down the silver part slightly not to break the part.

Extracción de la unidad

Cuando esté instalada con el asa de transporte

Para evitar que le roben la unidad
Cuando abandone el automóvil, extraiga la unidad del soporte y llévela consigo.

Cuando esté instalada sin el asa de transporte

Presione ligeramente hacia abajo la parte plateada sin romperla.

Verwijderen van het apparaat

Wanneer het apparaat met de draagbeugel geïnstalleerd wordt

Voorkomen dat het apparaat gestolen wordt
Verwijder bij het verlaten van de auto het apparaat uit het inbouwframe en neem het met u mee.

Wanneer het apparaat zonder de draagbeugel geïnstalleerd wordt

Druk het zilveren onderdeel enigzins naar beneden, zodat het niet breekt.

Bilstereons demontering

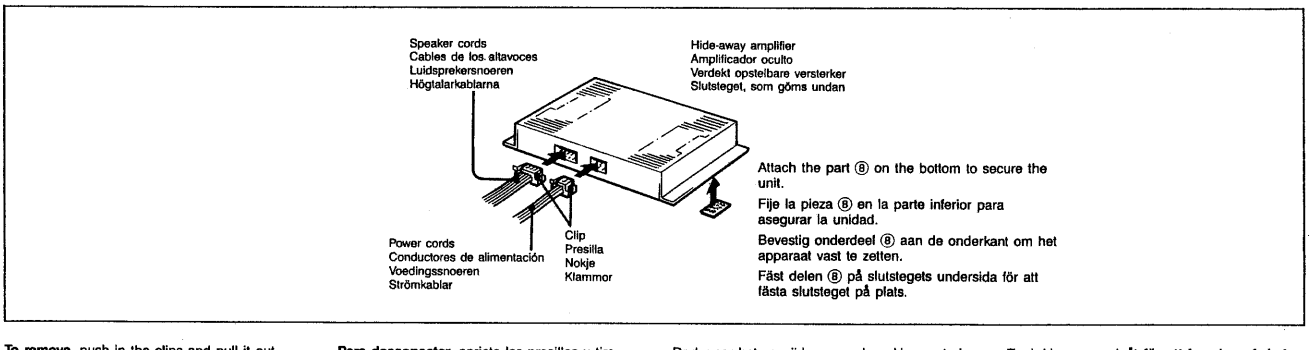
När bilstereon monteras i bilen med handtaget

Hur bilstereon skyddas mot stöld
Dra ut bilstereon ur stöldkassetten efter bilens parkering och ta bilstereon med dig.

När bilstereon monteras i bilen utan handtaget

Tryck lätt den silverfärgade delen nedåt, men var försiktig så att delen inte går av.

Cord Attachment



To remove, push in the clips and pull it out.

Fijación de los cables

Para desconectar, apriete las presillas y tire hacia afuera.

Bevestigen van het snoer

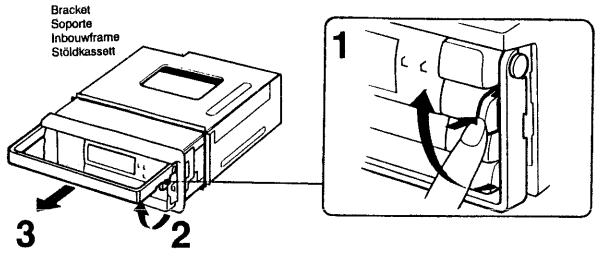
Druk voor het verwijderen op de nokjes en trek.

Kablarnas anslutning

Tryck klammorna inåt **för att koppla ur kabeln** och dra ut kontakten.

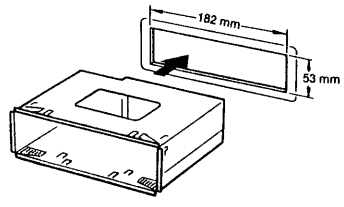
1

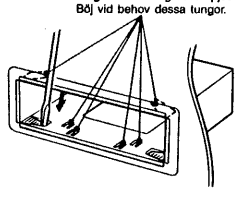
Remove the Unit from the Bracket.
Extraiga la unidad del soporte.
Verwijder het apparaat uit het inbouwframe.
Hur bilstereon demonteras ur stöldkassetten



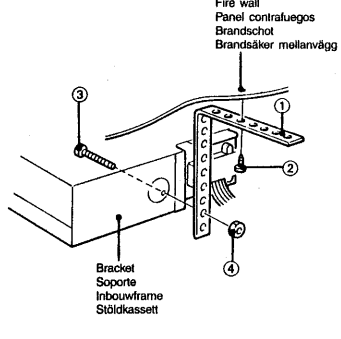
2

Install the Bracket in the Dashboard.
Instale el soporte en el salpicadero.
Monteer het inbouwframe in het dashboard.
Hur stöldkassetten monteras i instrumentinfattningen

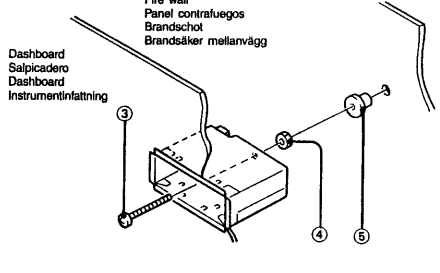



Bend these claws, if necessary.
Si es necesario, doble estas uñas.
Buig indien nodig deze lipjes om.
Böj vid behov dessa tungor.

Example 1
Ejemplo 1
Voorbeeld 1
Exempel 1

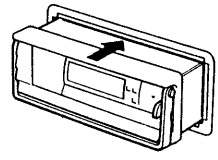


Example 2
Ejemplo 2
Voorbeeld 2
Exempel 2



3A

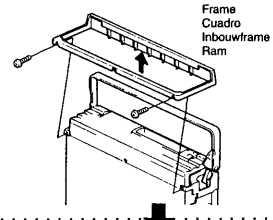
When Installing the Unit with the Carrying Handle
Cuando instale la unidad con el asa de transporte
Wanneer het apparaat met de draagbeugel geïnstalleerd wordt
När bilstereon monteras med handtaget

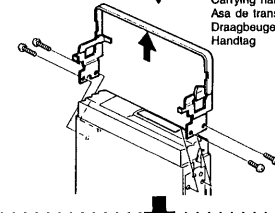


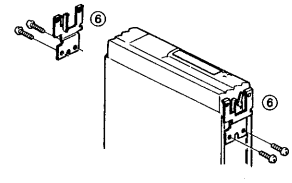
Push in the unit until it is locked firmly.
Empuje hacia adentro la unidad hasta que quede firmemente encajada.
Druk het apparaat aan tot het stevig blijft zitten.
Skjut in bilstereon i stöldkassetten så långt det går.

3B

When Installing the Unit without the Carrying Handle
Cuando instale la unidad sin el asa de transporte
Wanneer het apparaat zonder de draagbeugel geïnstalleerd wordt
När bilstereon monteras utan handtag

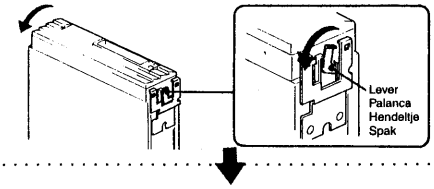


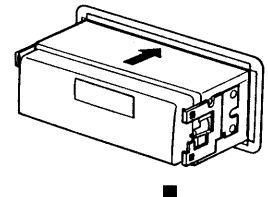


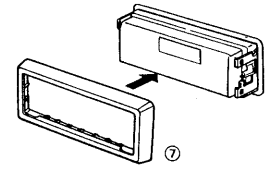


Use the screws removed in the previous step.
Emplee los tornillos quitados en el paso anterior.
Gebruik de in de vorige stap verwijderde schroeven voor het vastzetten van de draagbeugel.
Använd skruvarna, som skruvades ur enligt föregående punkt.

Press down the lever.
Presione hacia abajo la palanca.
Druk dit hendeltje naar beneden.
Tryck spaken nedåt.







Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Notes on speaker connection

- Use speakers with an impedance of 3.2 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.

Conexiones

Precauciones

- La unidad ha sido diseñada par alimentarse solamente con 12 V CC y negativo a masa (carrocería).
- Antes de realizar las conexiones, desconecte el terminal de puesta a masa de la batería del automóvil a fín de evitar cortocircuitos.
- Conecte el conductor de alimentación **rojo** solamente después de haber conectado todos los demás conductores. Además, cerciórese de conectarlo al terminal positivo de alimentación de 12 V. Este conductor se energizará cuando ponga la llave de encendido en la posición para accesorios.
- **Conecte todos los conductores de puesta a masa a un punto común.**

Notas sobre la conexión de los altavoces

- Emplee altavoces con una impedancia de 3,2 a 8 ohmios, y con la capacidad de potencia máxima adecuada. De lo contrario, los altavoces podrían dañarse.
- No conecte los terminales del sistema de altavoces del altavoz derecho a los del izquierdo.

Aansluitingen

Opgelet

- Dit apparaat mag alleen gebruikt worden op gelijkstroomvoeding van een 12 V auto-accu met negatieve aarding.
- Alvorens te beginnen met het maken van aansluitingen, dient de aardklem van de auto-accu te worden losgemaakt. Dit om kortsluiting te voorkomen.
- Sluit de **rode** stroomdraad pas aan nadat alle andere aansluitingen zijn gemaakt. Zorg ervoor dat deze stroomdraad op de positieve 12 V accu-aansluiting wordt aangesloten. De draad komt dan onder spanning te staan, wanneer de kontaktsleutel wordt omgedraaid.
- **Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.**

Opmerkingen betreffende het aansluiten van de luidsprekers

- Gebruik luidsprekers met een impedantie van 3,2 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.

Anslutningarna

OBS!

- Denna bilstereo är endast avsedd för anslutning till negativt jordat, 12 V bilbatteri.
- Allra första steget före anslutningarna: Koppla ur bilbatteriets jorduttag för att förebygga kortslutningar.
- Anslut den **röda**, ingående strömkabeln allra sist efter anslutning av samtliga andra kablar. Anslut denna strömkabel till det positiva 12 V strömuttaget. Strömmen leds till uttaget när startnyckeln vrids till läget ACC för tillbehörens påslag.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**

Att observera angående högtalarnas anslutning

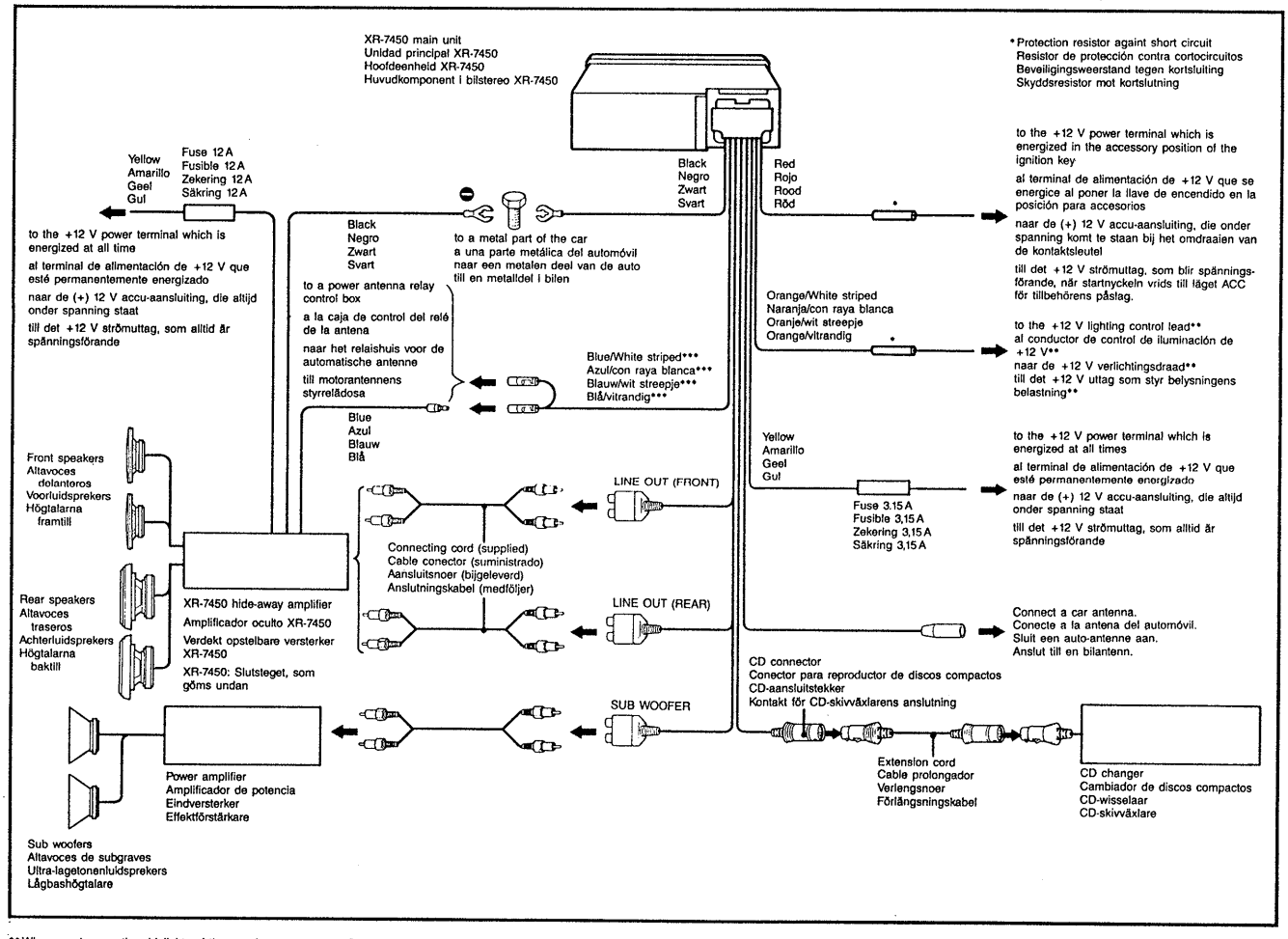
- Använd högtalare, vilkas tillåtna impedans varierar från 3,2 till 8 ohm och som har tillräcklig effekthanteringskapacitet, för att skydda högtalarna mot skador.
- Jorda inte högtalaruttagen till bilens underrede, och anslut inte minusuttaget på höger högtalare till minusuttaget på vänster högtalare.

Connection Diagram

Diagrama de conexiones

Aansluitschema

Kopplingsdiagram



** When you turn on the sidelights of the car, the display window becomes dimmer than before. If you want to keep it bright, press D. SCAN while pressing SELECT. Press these buttons again to make it dim.

*** Maximum supply current: 0.3 A

Note: A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.

After completing the connections, press the reset button of this unit.

** Cuando encienda las luces laterales del automóvil, el brillo de la ventanilla visualizadora se amortiguará. Si desea mantener el brillo, pulse D.SCAN manteniendo presionada SELECT. Para amortiguarlo, vuelva a presionar estas teclas.

*** Suministro máximo de corriente: 0,3 A

Nota: Con esta unidad no podrá emplearse una antena motorizada sin caja de relé. Con respecto a los detalles sobre la antena motorizada, consulte el manual de instrucciones.

Después de haber realizado las conexiones, presione el botón de reposición de esta unidad.

** Wanneer u de zijlichten van de auto inschakelt, zal het uitleesvenster minder helder worden. Houd de bijregelingskeuzetoets (SELECT) ingedrukt en druk op de disc-intro toets (D.SCAN), als u de verlichting van het uitleesvenster feller wilt laten branden. Om de verlichting weer minder helder te krijgen, dient u nogmaals op deze toetsen te drukken.

*** Maximale stroomsterkte: 0,3 A

Opmerking: Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken. Zie de gebruiksaanwijzing van de automatische antenne voor nadere details over de antenne.

Nadat alle aansluitingen gemaakt zijn, dient u op de terugsteltoets van dit apparaat te drukken.

** Belysningen i teckenfönstret blir svagare när parkeringsljusen i bilen tänds. Håll SELECT intryckt och tryck in D.SCAN om du vill ha klarare belysning i teckenfönstret. Tryck en gång till på dessa reglage när du igen vill ha svagare beslysning i teckenfönstret.

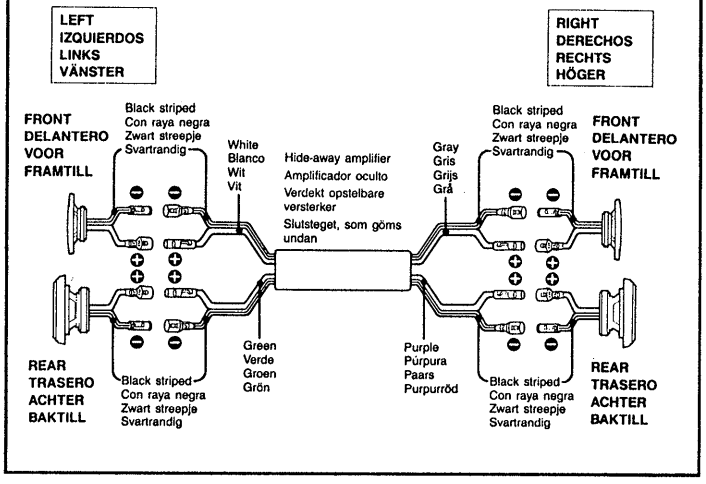
*** Maximal strömtillförselström: 0,3 A

OBS! En motorantenn utan styrreläadosa kan inte anslutas till denna bilstereo. Vi hänvisar till motorantennens bruksanvisning angående detaljer.

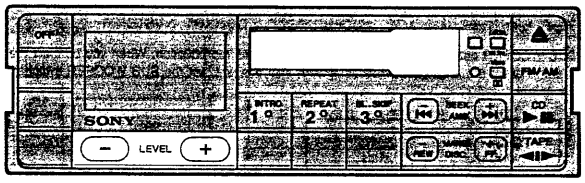
Tryck på nollställningsknappen på bilstereon efter att du slutfört samtliga anslutningar.

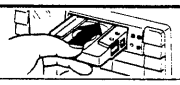
Speaker Connection
Conexión de los altavoces
Aansluiten van de luidsprekers
Högtalarnas anslutning

4-speaker connection
Conexión de 4 altavoces
Aansluiten van 4 luidsprekers
Anslutning av 4-vägs högtalaranläggning



Tape Playback



1		Insert a cassette to start playback.
2	LEVEL	Press to adjust the volume.

Other Operations

To rewind or fast-forward the tape	REW (rewind) MANU DISC FF (fast-forward)	To stop the tape and listen to the radio	FM/AM
To listen to the other side of the cassette	TAPE	To stop the tape and start the disc play	CD
To take out the cassette	⏏	To play back the tape again	TAPE
		To stop the tape and turn off the unit	OFF

To select the tape type

Tape type	
CrO2 (TYPE II) Metal (TYPE IV)	Press LOCAL/METAL once to engage the button.
Normal (TYPE I)	Press LOCAL/METAL twice to disengage the button.

Listening to Dolby NR-processed Tapes

Press MONO

Select Dolby B or Dolby C.
Select the same Dolby NR system used for the recorded cassette.
Dolby NR (Noise Reduction) system reduces tape hiss noise in low-level, high-frequency signals.

Locating the Beginning of a Desired Selection during Playback (AMS Function)

To locate the beginning of the selection being played	Press ⏮ .
To locate the next selection	Press ⏭ .

Listening to the Beginnings of Selections in Order (Intro-play)

Press INTRO 1 ○ . (during tape playback)

First ten seconds of each selection will be played back in order from the next selection. Press again to release it.

Repeating the Selection Being Played (Repeat play)

Press REPEAT 2 ○ .

The unit goes back to the beginning of the selection when the selection ends.

Skipping the Long Blank (Blank skip function)

Press BL.SKIP 3 ○ .

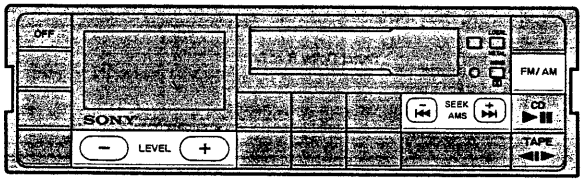
The unit skips the long blank (more than eight seconds) automatically and plays back the next selection. Press again to release this function.

Side of the cassette being played back

This unit plays back both sides of the cassette repeatedly. The indicator on the display window shows which side of the cassette is being played back.

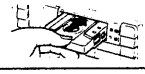
Indicator	Side
▶	The side facing upward
◀	The side facing downward

Automatic Tuning



1	FM/AM	Press to turn on the unit.
2	FM/AM	Press to select the desired band, FM1, FM2, FM3 or AM.
3	SEEK AMS	Press to start scanning. ⏮ For lower frequencies ⏭ For higher frequencies The scanning automatically stops when a station is tuned in. Repeat this step until the desired station is tuned in.
4	LEVEL	Press to adjust the volume.

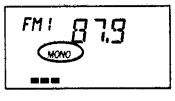
Other Operations

To stop the radio and start tape playback		To stop the radio and ...	
When no cassette is inserted		To start disc play	CD
When a cassette is inserted	TAPE	To turn off the unit	OFF

When the FM stereo program is too weak and noisy

Press MONO

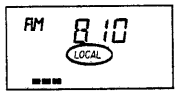
The noise will be reduced. The sound will be monaural instead.



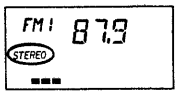
When there are too many stations and the scanning stops too frequently during automatic tuning

Press LOCAL METAL

Only the stations with comparatively strong signals can be tuned in.

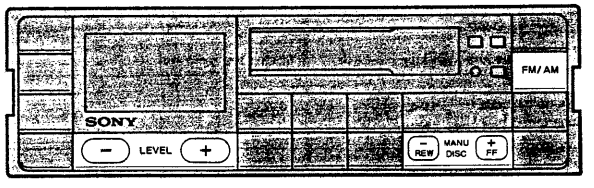


When an FM stereo program of sufficient signal strength is tuned in



The program is automatically received in stereo.

Manual Tuning



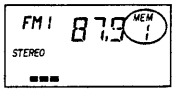
1	FM/AM	Press to turn on the unit.
2	FM/AM	Press to select the desired band, FM1, FM2, FM3 or AM.
3	REW MANU DISC FF	Press to select the desired station. REW For lower frequencies FF For higher frequencies To change the frequency rapidly, keep the button pressed.
4	LEVEL	Press to adjust the volume.

Warning
While driving, keep your eyes on the road and use the automatic tuning or the memory preset tuning!

Memorizing Only the Desired Stations Manually

Example: To memorize on the preset number 1

1	FM/AM	Press to turn on the unit.
2	FM/AM	Press to select the desired band, FM1, FM2, FM3 or AM
3	SEEK AMS or REW MANU DISC FF	Press to tune in the desired station.
4	INTRO 1	Press for more than two seconds. The number of the pressed preset number button will be displayed. MEM indicator appears to show that the station has been memorized. (MEM indicator will disappear in a few seconds.)



Repeat these steps for each station.

To Receive the Preset Station

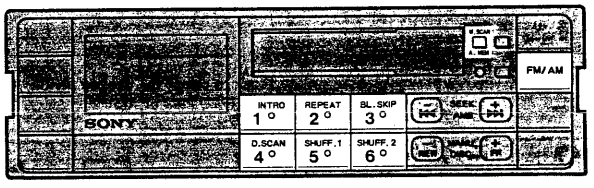
1	FM/AM	Press to select the desired band, FM1, FM2, FM3 or AM.
2	INTRO 1 ~ SHUFF. 2 6	Press lightly to receive the desired station.

Important
Every preset number button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

Memory Preset Tuning

You can memorize a total of 24 stations (6 stations for each band), one on each preset number.

Memorizing the Stations Automatically (Automatic Memory Function)



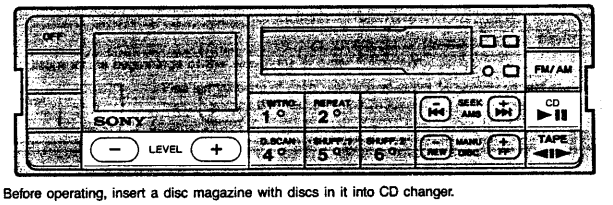
1	FM/AM	Press to turn on the unit.
2	FM/AM	Press to select the desired band, FM1, FM2, FM3 or AM.
3	M. SCAN A. MEM	Press for more than two seconds. The unit starts scanning the selected band and memorizes the tuned stations on the preset number buttons 1 through 6 automatically.

Surveying What is Being Broadcast on the Preset Stations

Press M. SCAN / A. MEM — Each memorized station will be scanned for five seconds in order. (When the broadcast of the memorized station is too weak, it cannot be received.)

In what way are stations scanned and memorized?
The unit scans the selected band twice. The scanning starts from the displayed frequency. During the first cycle, the unit scans stations with considerably strong signals. During the next cycle, the unit scans stations that can be received, including weak ones. And for memorizing, if any preset number is indicated in the display window, memorizing starts from this preset number. When you choose FM2 and the preset number 3 is displayed in the window, for example, memorizing starts from the preset nubmer 3 on FM2, and stops at the preset number 6 on FM3.

Disc Playing (When an optional CD changer is connected)



Before operating, insert a disc magazine with discs in it into CD changer.

1	CD ▶II	Press to start the disc play.
2	LEVEL	Press to adjust the volume.

Other Operations

To listen to another disc in the disc magazine	REW MANU DISC FF (Press lightly)
To pause during play	CD ▶II
To start again	CD ▶II

To stop disc play and start tape playback

When no cassette is inserted	
When a cassette is inserted	TAPE ◀II▶

To stop disc play and ...

To listen to the radio	FM/AM
To turn off the unit	OFF

Disc Playing

Locating the Beginning of a Desired Selection during Disc Playing (AMS Function)

To locate the beginning of the selection being played	Press ⏮
To locate a previous selection	Keep pressing ⏮ Release the button at the desired selection.
To locate the next selection	Press ⏭
To locate a selection ahead	Keep pressing ⏭ Release the button at the desired selection.

To Search for a Particular Point in a Selection (Manual Search)

To go ahead at high speed	Keep + FF pressed. Release the button at the desired point.
To go back at high speed	Keep − REW pressed. Release the button at the desired point.

The elapsed time of the selection is displayed during the manual search.

Various Plays

To listen to the beginnings of the selections in order (Intro-play)*

Press INTRO 1 — First ten seconds of each selection on every disc will be played in sequence from the next selection.

To repeat the selection being played (Repeat play)

Press REPEAT 2 — The unit goes back to the beginning of the selection when the selection ends.

To search for the desired disc (Disc scan)

Press D.SCAN 4 — First ten seconds of the first selection on each disc will be played in sequence.

To play the selections on the disc in a random order (Shuffle play 1)*

Press SHUFF.1 5 — All the selections on a disc being played will be played in a random order. After playing all the selections on the disc, the unit goes to the next disc.

To play the selections on all the discs in a random order (Shuffle play 2)*

Press SHUFF.2 6 — All the selections on all the discs in the disc magazine will be played in a random order.

To resume normal playback
Press each button again.

* When you press the INTRO button during the shuffle play (1 or 2), the first ten seconds of all the selections will be played in a random order.

Maintenance

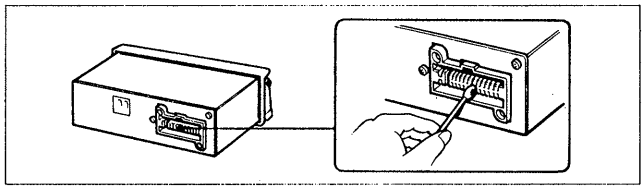
Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning
Use the specified ampere fuse for each lead. Use of a higher amperage fuse may cause serious damage.

Cleaning the Connector

To keep the best possible sound quality, clean the metalic part of the connector at the rear of the unit periodically using a commercially available head cleaning fluid or rubbing alcohol and a cotton swab.



Cleaning the Head and Tape Path

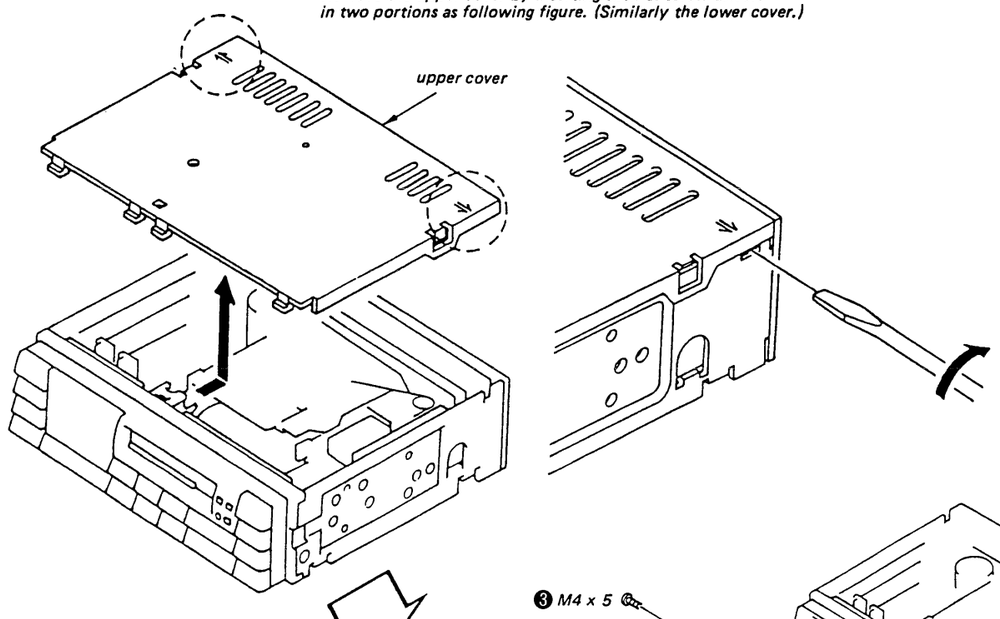
Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback.
Clean the tape head and tape path every two weeks to enjoy optimum hi-fi stereo sound. Use a commercially available cleaning cassette.

SECTION 2
DISASSEMBLY

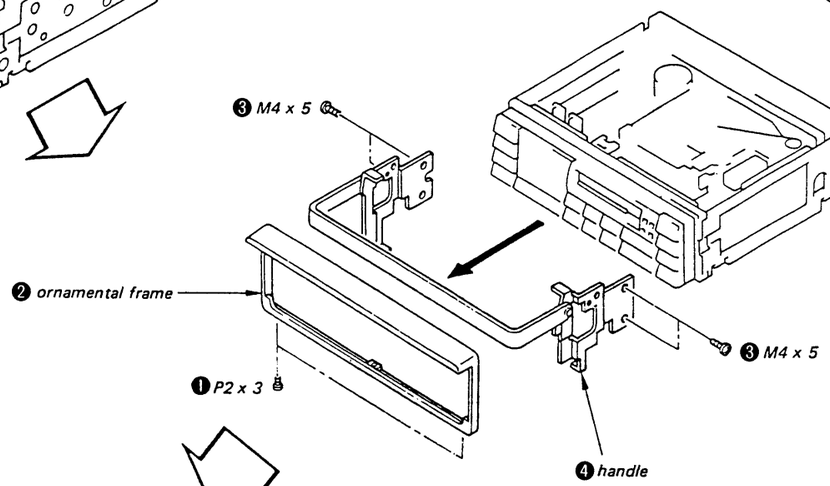
Note: Follow the disassembly procedure in the numerical order given.

COVER

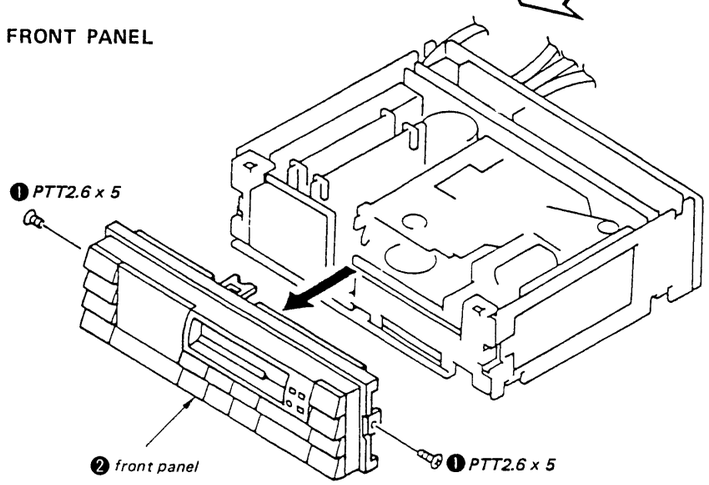
Remove the upper cover by inserting such as screw drivers in two portions as following figure. (Similarly the lower cover.)



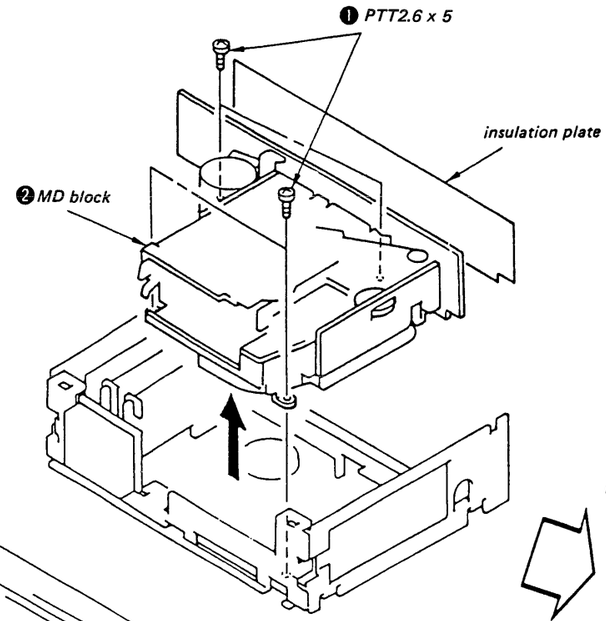
HANDLE



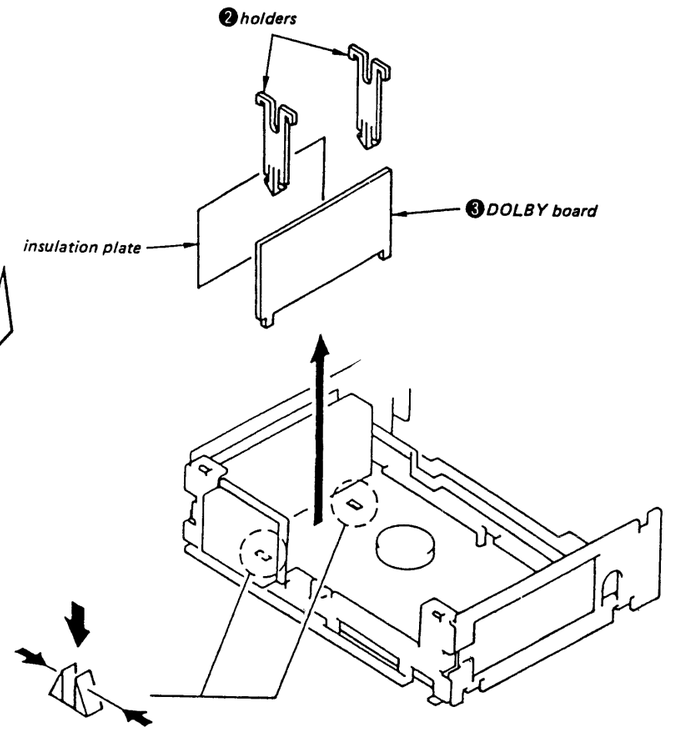
FRONT PANEL



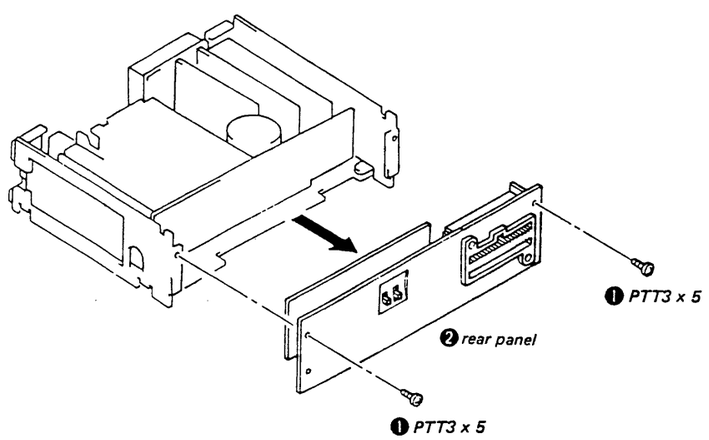
MD BLOCK



DOLBY BOARD



REAR PANEL



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

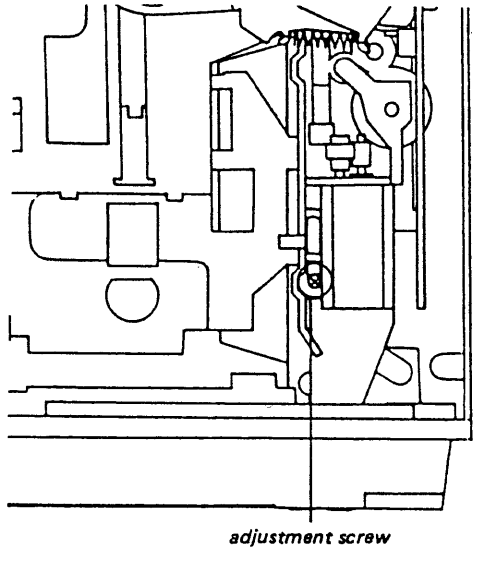
1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

Torque Measurement

Measure the torque at a supply voltage of 14.4 V DC.

	Torque meter	Meter reading
FWD	CQ-102C	25 to 55 g·cm (0.35 to 0.77 oz·inch)
FF, REW	CQ-210B	55 to 150 g·cm (0.77 to 2.1 oz·inch)
Back tension	CQ-102C	1.5 to 4 g·cm or less (0.02 to 0.05 oz·inch or less)

Adjustment Location:

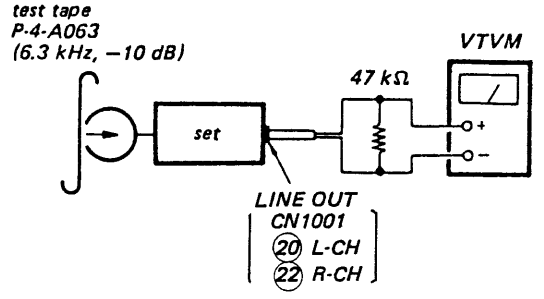


3-2. ELECTRICAL ADJUSTMENTS DECK SECTION

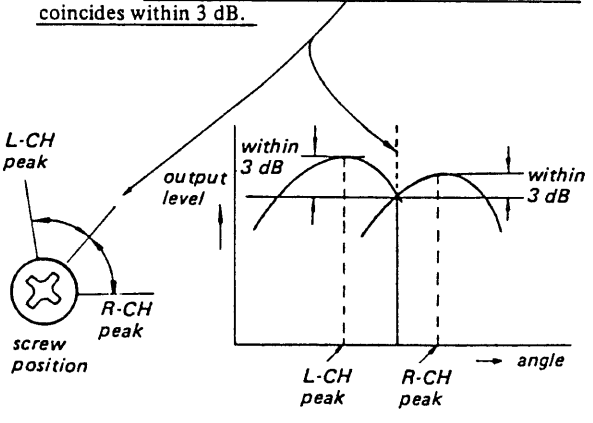
PB Head Vertical Adjustment

Proceudre:

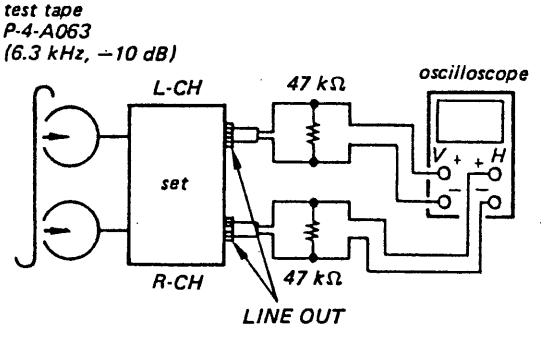
1. Put the set into the FWD PB mode.

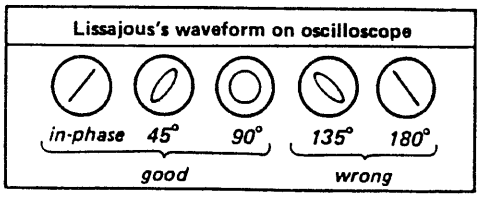


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 3 dB.



3. Check the phase in the PB mode.



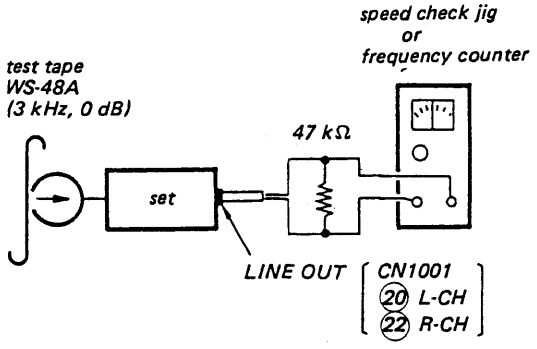


4. Repeat the above adjustment for the PB REV mode.

Capstan Motor Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.

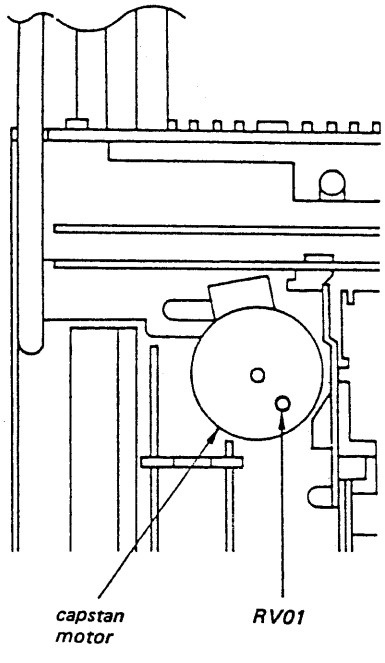


Specification: Constant speed

Speed check jig	Frequency counter
−1 to +2%	2,970 to 3,060 Hz

Adjust so that the frequency difference between the FWD and REV modes is within 1.5% (45 dB).

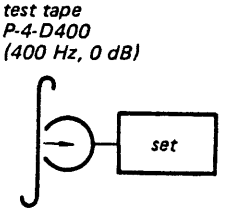
Adjustment Location: RV01



DOLBY NR Level Adjustment

Setting:

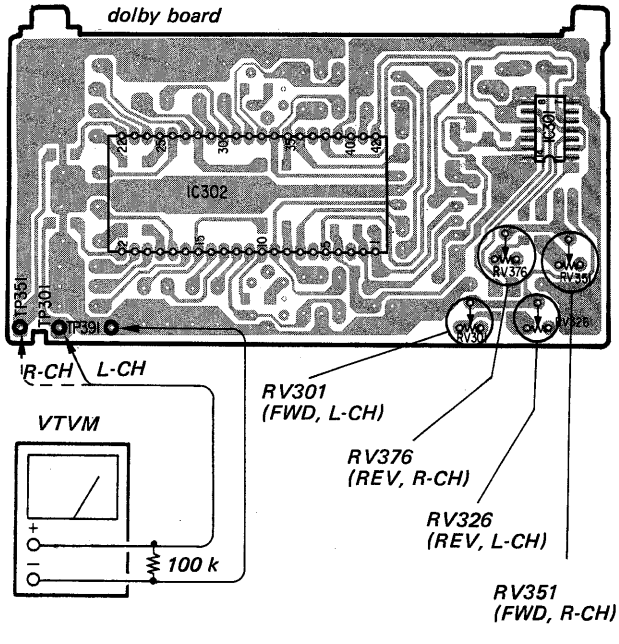
DOLBY NR switch: OFF
METAL switch: OFF



Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV326 (L-CH) and RV376 (R-CH) so that VTVM reading is 0.245 V (−10 dB).
3. Put the set into the REV PB mode.
4. Adjust RV301 (L-CH) and RV351 (R-CH) so that VTVM reading is 0.245 V (−10 dB).

Adjustment Location: dolby board



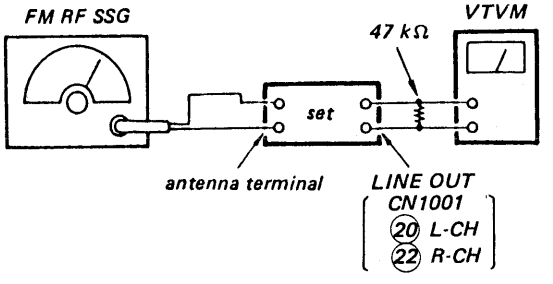
TUNER SECTION

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Stereo Separation Adjustment

Setting:
Band switch: FM
MONO switch: OFF (STEREO)

Procedure:



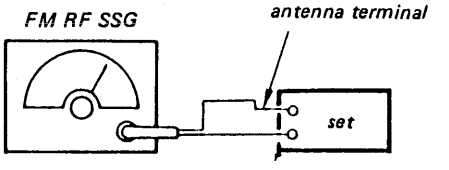
Carrier frequency: *98.0 MHz*
Output level: *3.2 mV (70 dB)*
Mode: *stereo*
Modulation: *main channel; 1 kHz, 33.75 kHz deviation (45%)*
pilot signal; 19 kHz, 7.5 kHz deviation (10%)
subchannel; 1 kHz, 33.75 kHz deviation (45%)

FM stereo SSG output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RV101 so that VTVM reading is minimized.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RV101 so that VTVM reading is minimized.

L-CH stereo separation: (A) – (B)
R-CH stereo separation: (C) – (D)
The separation in the two channels should be almost the same.

FM Auto Scan/Stop Level Adjustment

Setting:
Band switch: FM
MONO switch: ON
Frequency: 98.0 MHz



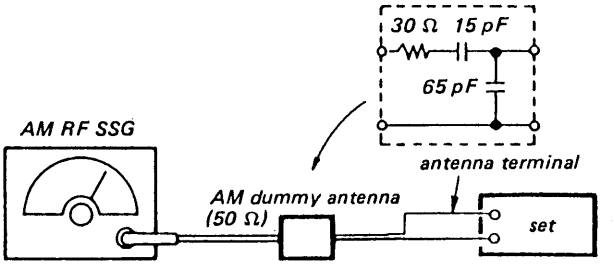
Carrier frequency: *98.0 MHz*
Output level: *25 dB (18 μV)*
Mode: *mono, unmodulated*

Procedure:
1. Tune in 98.0 MHz.
2. Adjust RV02 so that the VOM reading changes from low to high (5 V reference voltage).
3. When the FM RF SSG's output level is 25 ±4 dB check that the auto scan is stopped.

AM Auto Scan/Stop Level Adjustment

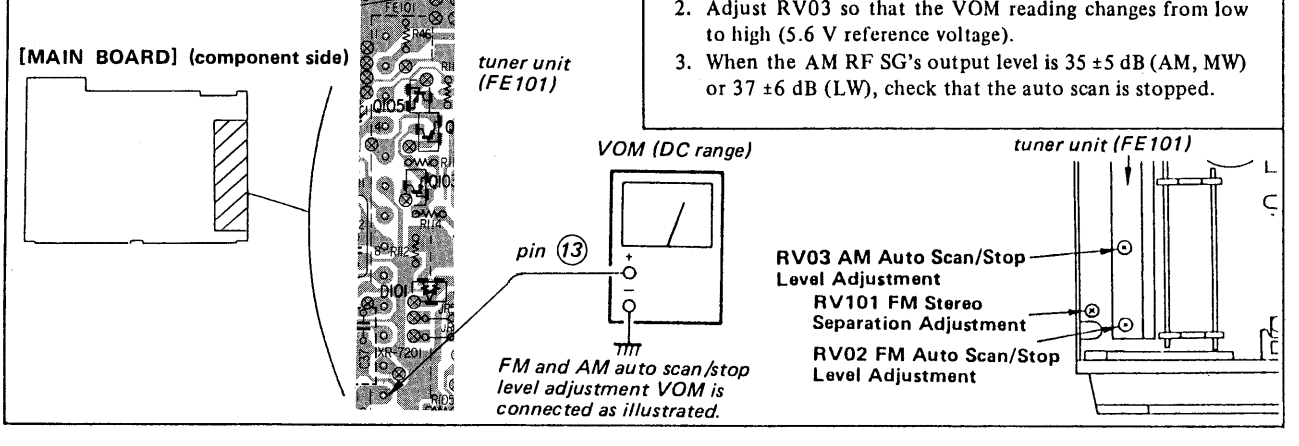
Note: This adjustment should be made after FM auto scan stop level adjustment is completed.

Setting:
Band switch } AM, MW . . . 999 kHz
Frequency } LW . . . . . 216 kHz



999 kHz,
35 dB (56 μV)
no modulation

Procedure:
1. Tune in 999 kHz.
2. Adjust RV03 so that the VOM reading changes from low to high (5.6 V reference voltage).
3. When the AM RF SG's output level is 35 ±5 dB (AM, MW) or 37 ±6 dB (LW), check that the auto scan is stopped.


[MAIN BOARD] (component side)
tuner unit (FE101)
VOM (DC range)
pin (13)
FM and AM auto scan/stop level adjustment VOM is connected as illustrated.
tuner unit (FE101)
RV03 AM Auto Scan/Stop Level Adjustment
RV101 FM Stereo Separation Adjustment
RV02 FM Auto Scan/Stop Level Adjustment

SECTION 4
DISASSEMBLY

【IC2 (μPD75112GF-540-3BE), IC701 (μPD7508HG-662-22) DESCRIPTION】

The μPD75112GF-524-3BE and μPD7508HG-609-22 functions are described below.

1. IC2

a. Description

Pin No.	Name	I/O	Description
1	DAT O	O	DATA output terminal to external RAM. Goes low during ACC OFF and ALLOFF. Low is output when there is no initial diode MNOS.
2	RAM ON	O	External RAM's power switching output terminal. Power is tured on for low output and turned OFF for high output. Low is output when there is no initial diode MNOS.
3	CE (PLL)	O	CE output terminal to PLL IC. Used as a LATCH signal to send data to PLLIC. Goes low during ACC OFF and ALL OFF or in modes other than TUNER.
4	CLK O (PLL/LCD)	O	Clock output terminal to PLL IC and LCD driver IC. Goes low during ACC OFF and ALL OFF (display OFF).
5	DAT O (PLL/LCD)	O	Clock output terminal to PLL IC and LCD driver IC. Goes low during ACC OFF and ALL OFF (display OFF).
6	CE (VOL)	O	CE output terminal to VOL IC. Used as a LATCH signal to send data to VOLIC. Goes low during ACC OFF and ALL OFF.
7	RESET	I	Reset input terminal. Microcomputer can be reset and started by changing thelevel from low to high. A high signal is input during normal operation.
8	×2	—	System clock oscillation connection terminal. Connected at 4.19 MHz.
9	×1	I	System clock oscillation connection terminal. Connected at 4.19 MHz.
10	CE (LCD)	O	CE output terminal to LCD driver IC. Used as a LATCH signal to send data to LCD IC. Goes low during ACC OFF and ALL OFF (display OFF).
11	INH (LCD)	O	INH output terminal to LCD driver IC. When high is output, ON is displayed. When low is output, OFF is displayed. Goes low during ACC OFF and ALL OFF (display OFF).
12	CLK O (VOL) /TEST	I/O	Clock output terminal to VOL IC. Goes low during ACC OFF and ALL OFF. During initialization, high is input using a TEST input connector, and initial data is written to the external RAM. Low is input during normal operation. Used as a clock output signal to VOL IC.
13	DAT O (VOL)	O	Data output terminal to VOL IC. Goes low during ACC OFF and ALL OFF.
14	KO7	O	KEY SCAN output terminal.
15	KO6	O	KEY SCAN output terminal.
16	KO5	O	KEY SCAN output terminal.
17	KO4	O	KEY SCAN output terminal.
18	KO3	O	KEY SCAN output terminal.
19	KO2	O	KEY SCAN output terminal.
20	KO1	O	KEY SCAN output terminal.
21	KO0	O	KEY SCAN output terminal.
22	KI3	I	KEY SCAN input terminal.
23	KI2	I	KEY SCAN input terminal.
24	KI1	I	KEY SCAN input terminal.
25	KI0	I	KEY SCAN input terminal.

Pin No.	Name	I/O	Description
26	Vss	I	GND
27	ACC CHECK	I	Accessory input terminal. High : ACC ON, Low : ACC OFF
28	SK	I	SK signal input terminal.
29	SD	I	SD signal input terminal. Tuning can be done at high level but not at low level.
30	DK	I	DK signal input terminal.
31	STEREO	I	STEREO signal input terminal. A STEREO signal is input for high level, and aMONO signal for low level.
32	CD CHECK	I	CD changer check input terminal. CD changer exists for high level, and does not exist for low level.
33	(METAL)	—	METAL input terminal (unused and opened).
34	TAPE ON	I	TAPE ON input terminal from TAPE control microcomputer. Goes high duringtape operation and goes low when tape stops.
35	(ILL)	—	Illumination input terminal (unused and opened).
36	REMOTE IN	I	Remote in (AUX) input terminal. AUX mode is entered when low is input with ACC ON.
37	DAT O (TAPE/CD)	O	DATA output terminal to TAPE control microcomputer and CD changer (key data is output). Low is output except during data transfer.
38	CLK O (TAPE/CD)	O	Clock output terminal to TAPE control microcomputer and CD changer. Low is output except during data transfer.
39	DISPSEL	O	DISPSEL output terminal to TAPE control microcomputer and CD changer. A square wave (15.6 msec period is output when the TUNER, TAPE, or CD mode is set during power ON. The TAPE control microcomputer detects the timing for sending the display data at the leading edge. The CD changer detects the timing at the trailing edge.
40	BEEP	O	BEEP output terminal. A square wave of approx. 2 kHz is output when a keyacknowledge beep or alarm sounds.
41	DAT IN (TAPE/CD)	I	DATA input terminal from TAPE control microcomputer and CD changer.
42	NC	—	
43	CLK IN (TAPE/CD)	I	Clock input terminal from TAPE control microcomputer and CD changer.
44	BK	I	BK input terminal.
45	AMP ON	O	Amplifier output terminal. High : AMP ON, Low : AMP OFF
46	METAL	O	METAL output terminal. When a METAL signal is output in TAPE mode, high is output. When no METAL signal is output, low is output. High is output during ACC OFF and ACC OFF or in modes other than TAPE.
47	MONO	O	MONO output terminal. When an FM MONO signal is output in TUNER mode, high is output. When signals other than FM MONO are output, low is output.
48	MUTE	O	AUDIO MUTE output terminal. Used as a mute circuit control signal. A MUTE ON signal is sent when this is high, and a MUTE OFF signal when this is low. Goes low after eight seconds during ACC OFF and ALL OFF. The AMP ON output also goes low.

Pin No.	Name	I/O	Description
49	DOLBY B/C	O	DOLBY B/C switching output terminal. Valid when the DOLBY ON/OFF signal is low. Set to DOLBY B when the signal is high, and set to DOLBY C when it is Low. High is output during AMS, ACC OFF, and ALL OFF in TAPE mode and in modes other than TAPE.
50	DOLBY ON/OFF	O	DOLBY switching output terminal. DOLBY is on for low and off for high. High is output during AMS, ACC OFF and ALL OFF in TAPE mode and in modes other than TAPE.
51	CD	O	CD mode select output terminal. Goes high in CD mode and goes low in modes other than CD. Goes low during ACC OFF.
52	POWER	O	POWER ON output terminal. Goes high in TUNER, TAPE, and CD modes and goes low during ACC OFF. Also used as a remote output port.
53	DIMER select ON/OFF	O	DIMER ON/OFF select output terminal. The DIMER signal can be selected for high and cannot be selected for low. Goes high during ACC OFF and ALL OFF.
54	LW	O	LW select output terminal. Low is output during tuner LW band or TV receiving (for Japanese FM). High is output in modes other than TUNER or during ACC OFF. (Unused and opened.)
55	AM	O	AM select output terminal. Low is output for tuner AM (MW) band. Goes high in modes other than TUNER or during ACC OFF.
56	FM	O	FM select output terminal. Low is output for tuner FM band. Goes high in modes other than TUNER or during ACC OFF.
57	NC	—	
58	BACKUP 5V	I	Positive power supply terminal. A backup power of approx. 5V is supplied.
59	CD MUTE	I	MUTE input terminal from CD change.
60	TAPE MUTE	I	MUTE input terminal from TAPE control microcomputer.
61	BUSY (RAM)	I	BUSY input terminal from external RAM.
62	DATA IN (RAM)	I	DATA input terminal from external RAM.
63	CE (RAM)	O	CE output terminal to external RAM. Used as a LATCH signal to send data.
64	CLKO (RAM)	O	CLOCK output terminal to external RAM. When there is no RAM indicated byinitial diode MNOS, a CE signal is also output for low.

b. Key Matrix

• Matrix Diagram

O \ I	KI0	KI1	KI2	KI3	
KO2	TUNER/BAND	ALL OFF	CD PLAY/PAUSE	TAPE PLAY/DIR	Momentary Key
KO3	EJECT	DOLBY/MONO	MANU – DISC – REW	MANU + DISC + FF	
KO4	③ B.SKIP	MEM. SCAN AUTO. MEM	SEEK + AMS + FF AMS	SEEK – AMS – REW AMS	
KO5	MUTE	LOUD	LEVEL –	⑤ SHUFFLE1	
KO6	④ DISC. SCAN.	② REPEAT	LEVEL +	SELECT	
KO7	METAL/LOCAL	① INTRO	⑥ SHUFFLE2	——	
KO0	DOLBY B/C	MNOS memory	REMIN VOL	PRESET ONLY	Initial diode (for initializing)
KO1	A0	A1	A2	A3	

• Initial Diode (for initializing)

	No diode	Diode
DOLBY B/C	DOLBY B, C	DOLBY B only
MNOS memory	No memory	Memory
REMIN VOL	AUX mode : SELECT, LOUD MUTE, LEVEL + LEVEL : Valid	AUX mode : SELECT, LOUD MUTE, LEVEL + LEVEL : Invalid
PRESET ONLY	①–⑥ Ok in modes other than PRESET	①–⑥ Only in PRESET

	A1 A0 0 0	0 1	1 0	1 1
A3 A2 0 0	J + TV		AEP ARI	
0 1	※USA2	※USA2	※USA1	※USA1
1 0	※E1	※E1	※E2	※E2
1 1	※AEP L3	※AEP L2	※AEP ARI L3	※AEP ARI L2

0 ··· No diode
1 ··· Diode

※E1 : AM 9 kHz step
E2 : AM 10 kHz step

※USA1 : AM 530 – 1,620 kHz
USA2 : AM 530 – 1,710 kHz

※L2 : LW 153 – 281 kHz
L3 : LW 153 – 279 kHz

2. IC701 Description

a. Description

Pin No.	Name	I/O	Description
1	KSI0	I	Key scanning input port.
2	KSI1	I	Key scanning input port.
3	KSI2	I	Key scanning input port.
4	KSI3	I	Key scanning input port.
5	(B. SKIP)	—	High output in BLANK SKIP mode (unused and opened).
6	(REPEAT)	—	High output in REPEAT mode (unused and opened).
7	(INTRO)	—	High output in INTRO scanning mode (unused and opened).
8	AMS	O	High output during AMS operation.
9	TEST	O	Test mode.
10	(REW)	O	High output in REW mode (unused and opened).
11	(NC)	—	
12	(NC)	—	
13	N/R	O	High output in REVERSE mode.
14	MUTE	O	MUTE ON when a high signal is output.
15	RESET	I	Reset by high level and started from program address 0 by low level.
16	CLOCK1	—	System clock oscillator connection terminal.
17	V_{DD}	—	Positive power supply terminal.
18	CLOCK2	—	System clock oscillator connection terminal.
19	GND	—	External interrupt input (active) at leading edge (connected to GND).
20	ACC CHECK	I	ACC ON at high input. ACC OFF at low input.
21	CLK IN	I	Serial clock input from master microcomputer.
22	(SO)	—	(unused and opened.)
23	(NC)	—	
24	DATA IN	I	Serial clock input from master microcomputer.
25	CLK OUT	O	Serial transfer clock output to master microcomputer.
26	DATA OUT	O	Serial transfer data output to master microcomputer.
27	(BEEP)	—	BEEP ON at High output (unused and opened).
28	TAPE ON	O	High output during tape operation.
29	DSPSEL	I	Serial transfer timing signal from master microcomputer. (A square wave (32 msec period) is input and can be sent at the leading edge.)
30	REEL2	I	Input to detect the take-up reel table operation in normal REW mode.
31	REEL1	I	Input to detect the take-up reel table operation in normal FWD mode.
32	AMS IN	I	Sound detection input. (High : Sound)
33	CAP M	O	Capstan motor drive output. (Capstan motor is turned on when high is output.)
34	PL	O	Plunger drive output. (Plunger is turned on when high is output and releasedwhen low is output.)

Pin No.	Name	I/O	Description
35	LM −	O	Loading motor drive output. (Loading motor is turned on when high is outputand released when low is output.) LM − / LM +: High / Low High: Braked / Forward Low: Reverse / Stopped Note : For forward rotation, the loading motor is activated in the PLAY direction.
36	LM +	O	
37	Vss	—	Connected to GND.
38	(EVENT)	—	(Unused and connected to GND.)
39	(ϕ OUT)	—	(Unused and Opened.)
40	(KSO0)	—	Key scanning output port (unused and Opened).
41	(KSO1)	—	Key scanning output port (unused and Opened).
42	KSO2	O	Key scanning output port.
43	KSO3	O	Key scanning output port.
44	(NC)	—	

b. Key Matrix

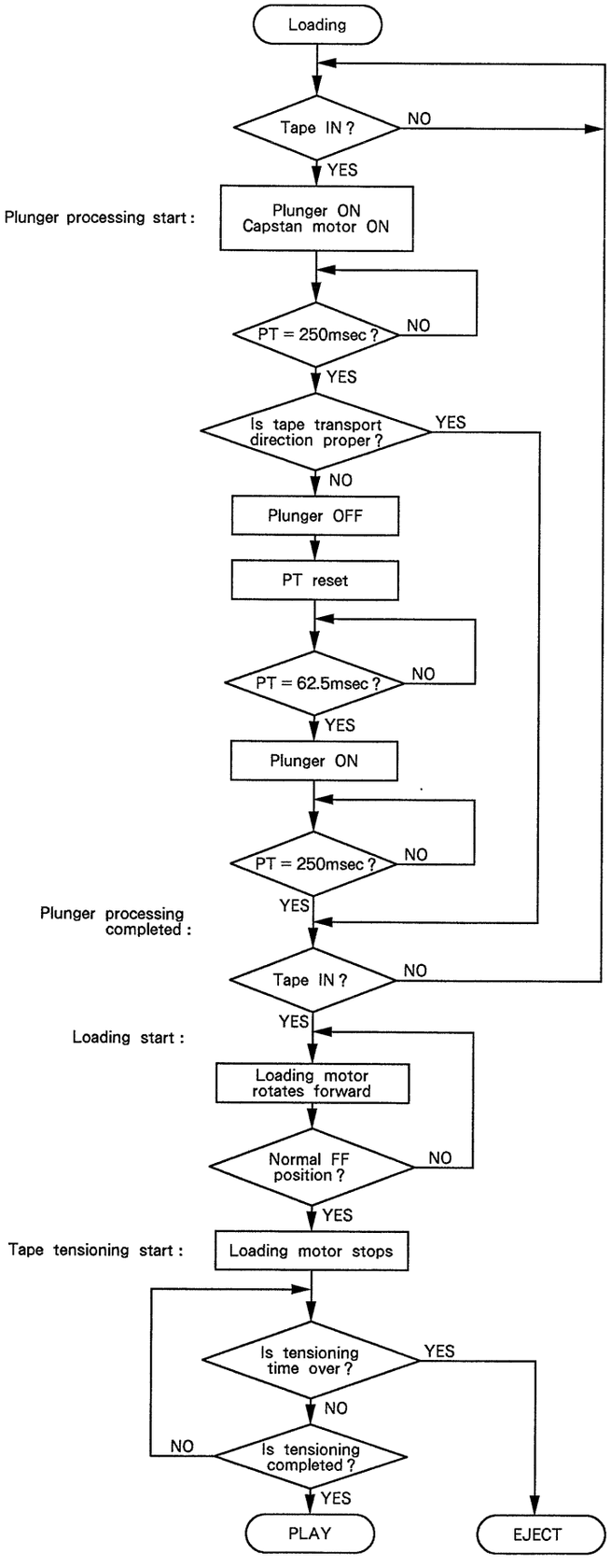
Input / Output	KSI0	KSI1	KSI2	KSI3
KSO0	PLAY/DIR	STOP/EJECT	AMS FF/FF	AMS REW/REW
KSO1	B. SKIP	REPEAT	INTRO	——
KSO2	TAPE IN	REMOTE IN	N/R	EJECT/RELEASE
KSO3 *	STOP	FF	REW	PLAY

* The input corresponding to KSO3 indicates the mode position shown in the table below.

STOP	FF	REW	PLAY	
I	O	O	O	STOP (EJECT) position
I	I	O	O	Intermediate position between STOP and FF
O	I	O	O	Normal FF position
O	I	I	O	Intermediate position between FF and REW
O	O	I	O	Normal REW position
O	O	I	I	Intermediate position between REW and PLAY
O	O	O	I	PLAY position

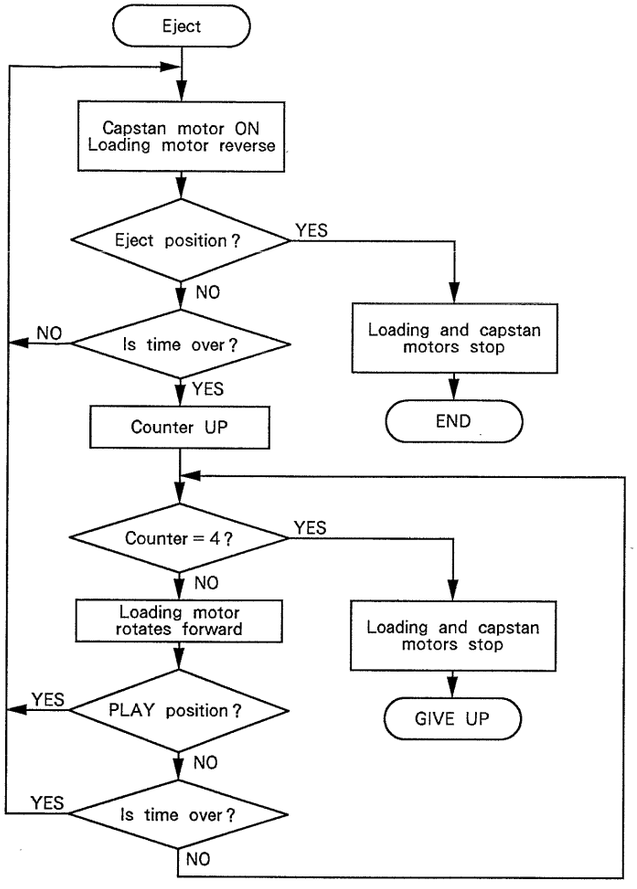
C. Flow Chart

• Loading



Note : PT stands for plunger timer.

• Eject



Note : The timer described above indicates the time in the STOP position or each intermediate position. The timer in the STOP position. The timer in the STOP position is set for 5 sec, and that in other positions for 2 sec.

4-1. PRINTED WIRING BOARDS

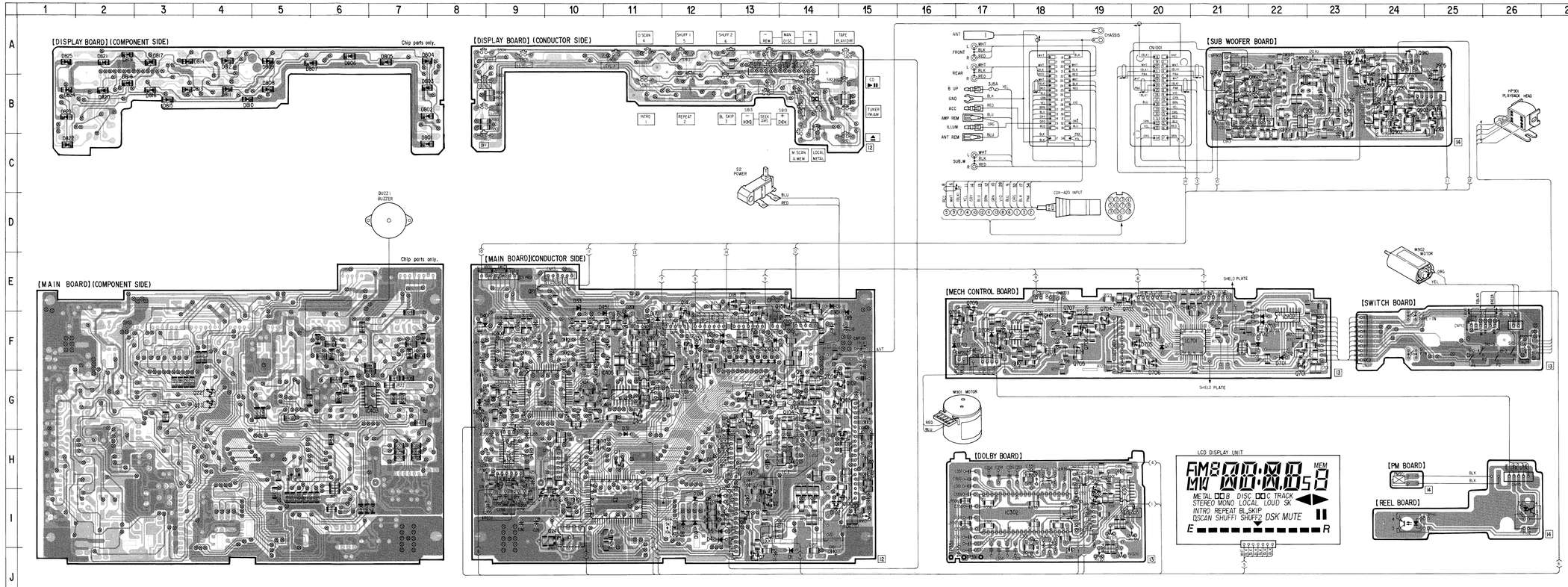
- **See page 29 for Semiconductor Lead Layouts.**
- **See page 39 for Power Amp Board.**

Note:

- ○—○ : parts extracted from the component side.
- ⊗ : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

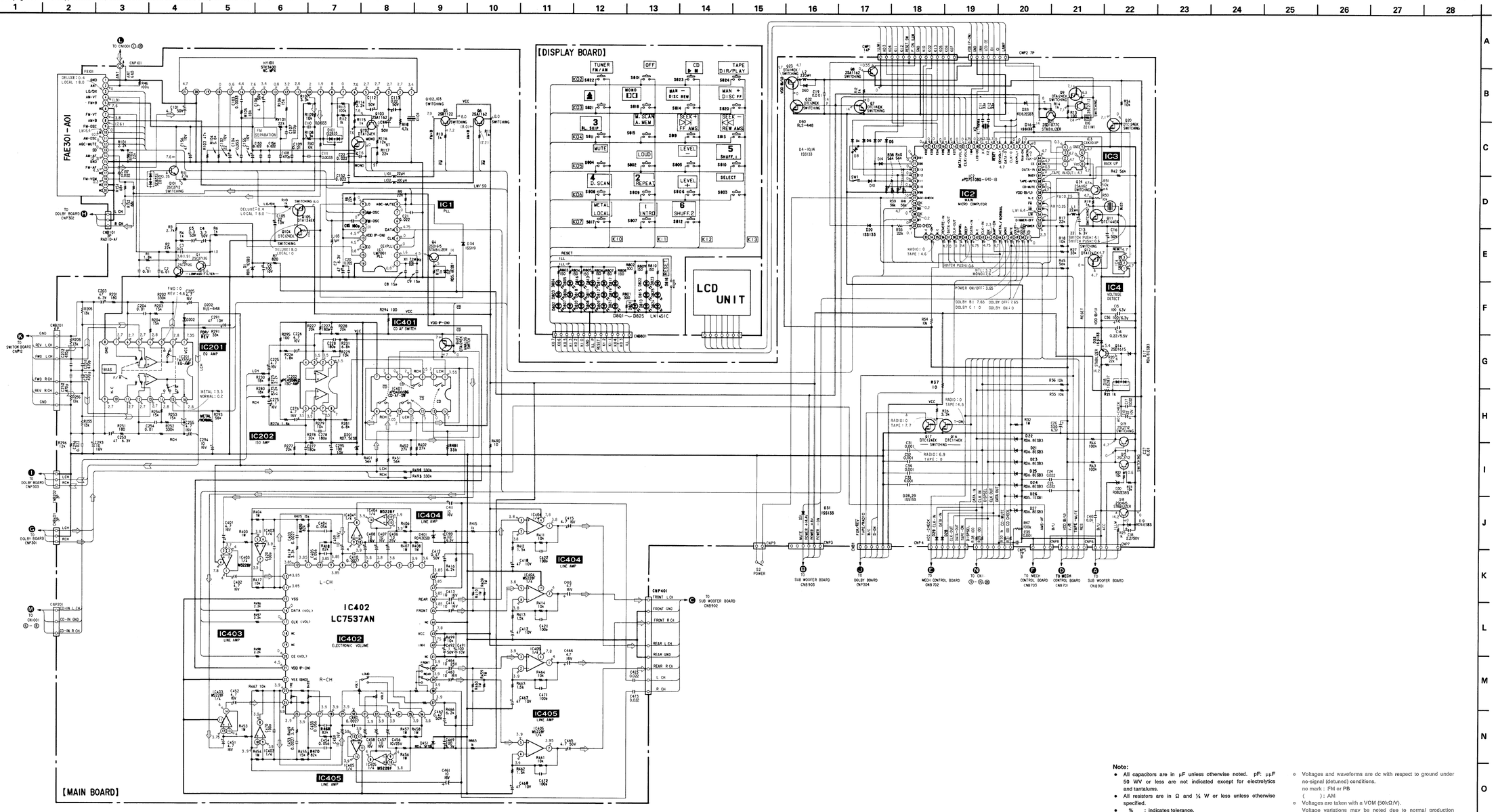
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	I-14	D808	B-5	Q1	H-13
D2	H-13	D809	A-5	Q2	I-13
D4	I-12	D810	B-4	Q4	G-13
D5	I-12	D811	B-4	Q5	G-14
D6	I-12	D812	A-4	Q6	G-14
D7	I-12	D813	B-3	Q7	J-13
D8	I-12	D814	A-3	Q8	I-13
D10	I-12	D815	B-3	Q9	G-13
D14	I-12	D816	B-3	Q10	G-13
D16	H-12	D817	A-3	Q11	H-11
D17	F-11	D818	B-2	Q12	F-12
D18	E-13	D819	A-2	Q14	E-12
D19	E-15	D820	B-2	Q15	E-14
D20	F-13	D821	A-2	Q16	I-10
D21	F-13	D822	C-1	Q17	I-10
D22	F-13	D823	B-1	Q18	E-13
D23	F-13	D824	B-1	Q19	E-13
D24	F-13	D825	A-1	Q20	G-13
D25	F-13	D901	B-24	Q21	E-9
D26	F-13	D902	B-24	Q22	G-4
D27	F-13	D905	A-25	Q23	G-4
D28	F-13	D906	A-23	Q24	I-10
D29	F-13			Q101	I-15
D30	E-14	IC1	H-14	Q102	G-15
D31	H-11	IC2	I-11	Q103	G-15
D32	F-12	IC3	I-10	Q104	G-14
D33	E-10	IC4	G-12	Q105	G-15
D34	G-14	IC101	H-15	Q391	H-19
D60	G-13	IC201	H-9	Q392	I-19
D101	H-15	IC202	F-11	Q401	G-11
D102	I-14	IC301	H-19	Q701	F-22
D201	F-11	IC302	I-17	Q702	F-22
D202	G-8	IC401	G-11	Q703	E-19
D401	F-9	IC402	G-9	Q704	F-19
D451	E-11	IC403	G-7	Q705	F-19
D701	F-22	IC404	F-9	Q706	F-19
D702	F-22	IC405	F-10	Q707	E-18
D703	F-22	IC701	F-21	Q708	F-17
D704	F-22	IC702	F-22	Q709	E-17
D705	F-20	IC703	F-18	Q850	B-21
D706	F-20	IC704	F-19	Q860	B-21
D707	F-18	IC901	B-22	Q901	B-24
D708	F-17			Q902	B-24
D709	F-17			Q903	B-24
D710	F-17			Q910	A-24
D711	F-20			Q913	B-25
D801	C-8			Q914	B-24
D802	B-8			Q915	B-24
D803	B-8			Q916	A-23
D804	A-8			Q950	B-21
D805	A-7			Q951	B-23
D806	A-6			Q960	B-21
D807	A-6				



4-2. MAIN, DISPLAY BLOCK SCHEMATIC DIAGRAM

• See page 33 for Dolby, Mechanism, Sub-woofer Block Schematic Diagram, and page 37 for Power Amp Board Schematic Diagram.



–29–

–30–

–31–

–32–

• SEMICONDUCTOR LEAD LAYOUTS

LC7573AN

2SD1682-S

2SD1802FA

M54543L

DSA1A2

NMX3S900

(Marking side view)

ERD31-04

S-8054HN-C3

LN1451C

TA7250BP
TA7251BP

RD11ES-B1
RD4.3ES-B1
RD4.7ES-B1
RD5.1ES-B1
RD5.6ES-B1
RD6.8ES-B1
RD6.8ES-B3
RD7.5ES-B2
RD8.2ES-B3
RD9.1ES-B2
RD9.1ES-B3
1SS119

μPD7508HG-662-22

10E2

μPD75112GF-540-3BE

(Top view)

RLS-4148

2SA1385

Anode
Cathode

V09G

2SC2785-HFE
2SD1021

Note:

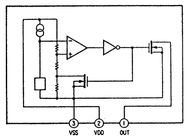
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ⚠ : nonflammable resistor.
- ▭ : S + Line.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ( ) : AM
- Voltages are taken with a VOM (50kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB

Note on Main Display Block Schematic Diagram:

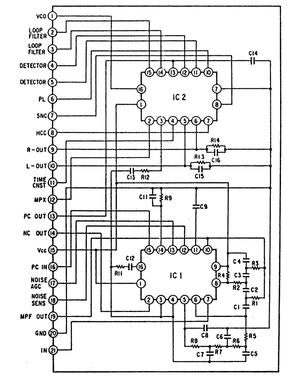
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ⚠ : nonflammable resistor.
- : B + Line.
- : adjustment for repair.*
- Total current is measured with no cassette installed.*
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.*
  no mark : FM or PB
  ( ) : AM
- Voltages are taken with a VOM (50kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.*
  ⇨ : FM Σ : PB
* : Indicated by the color red.

● IC BLOCK DIAGRAMS

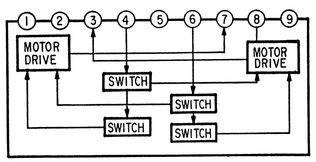
IC4 S8054HN-C3

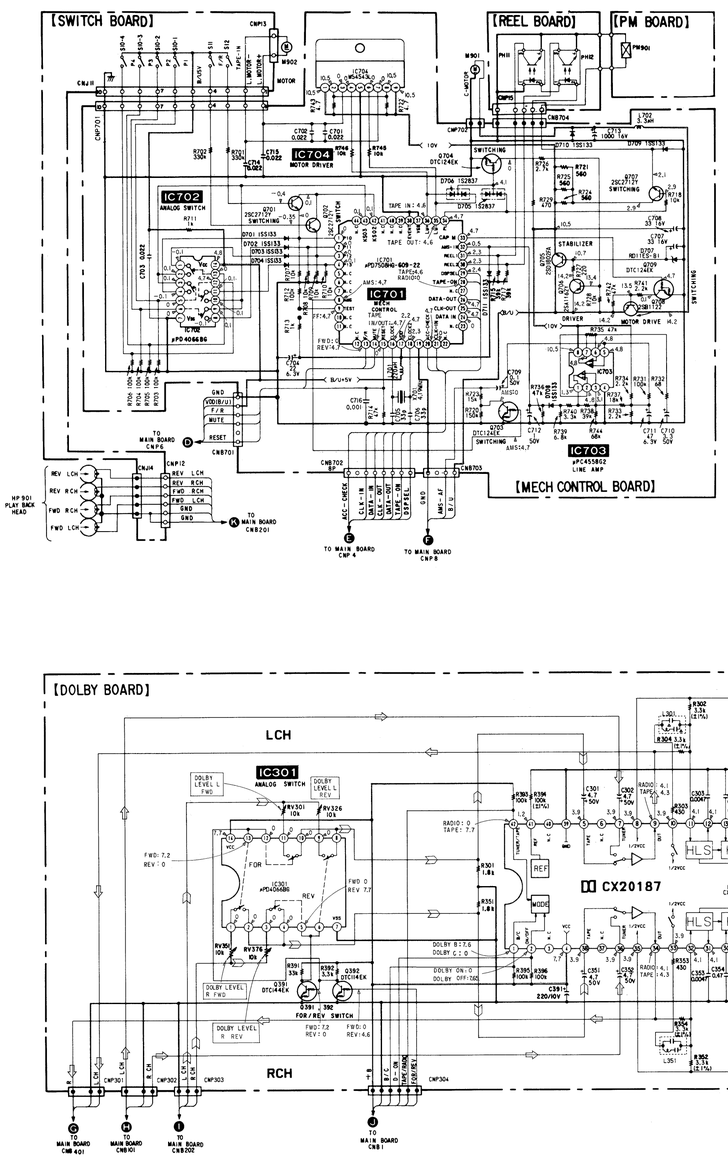


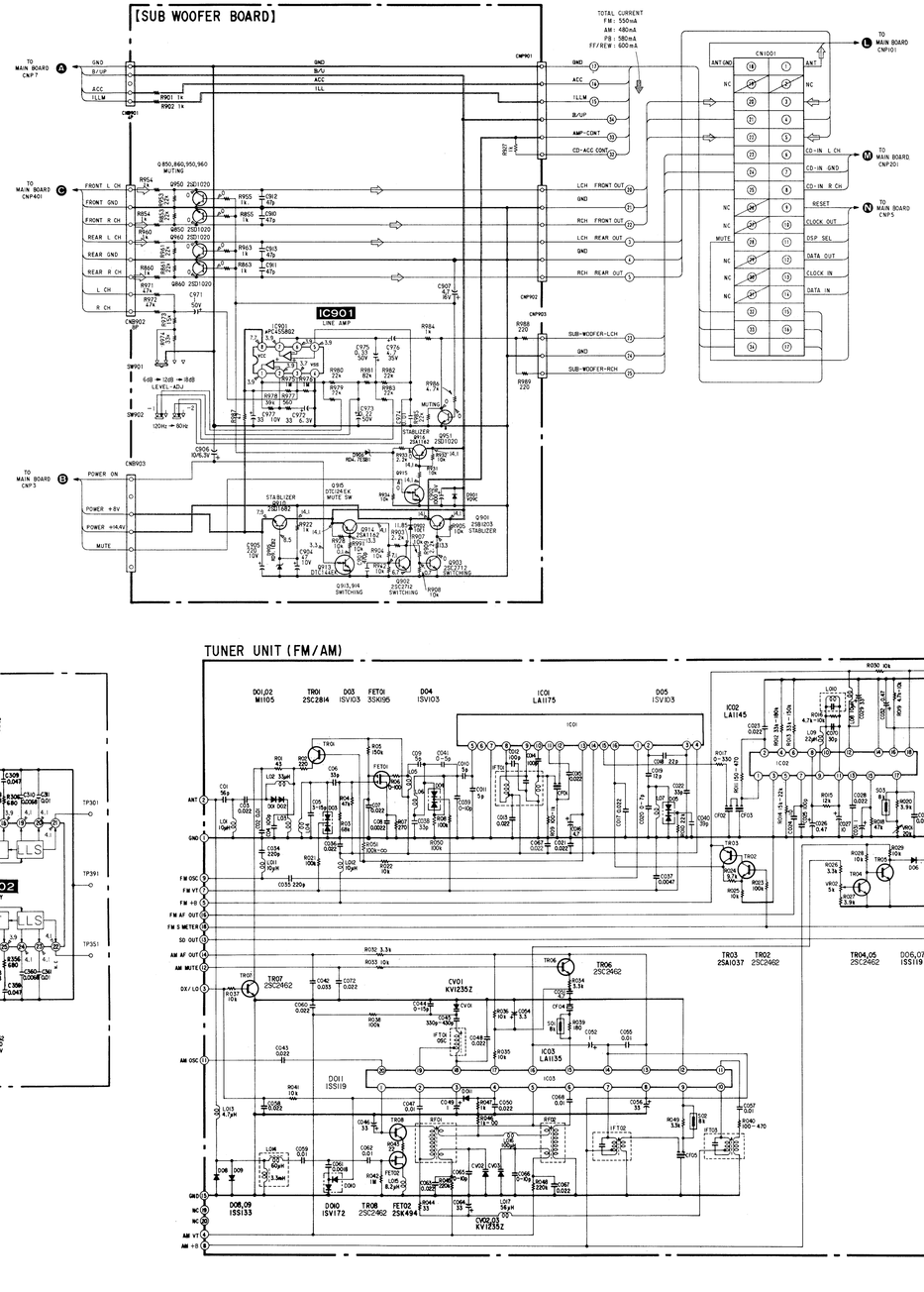
HY101 NMX3S900

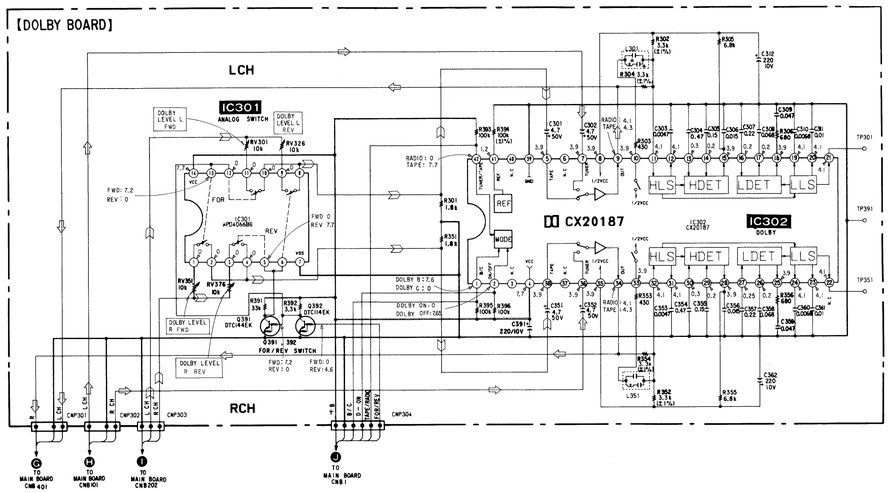


IC704 M54543L

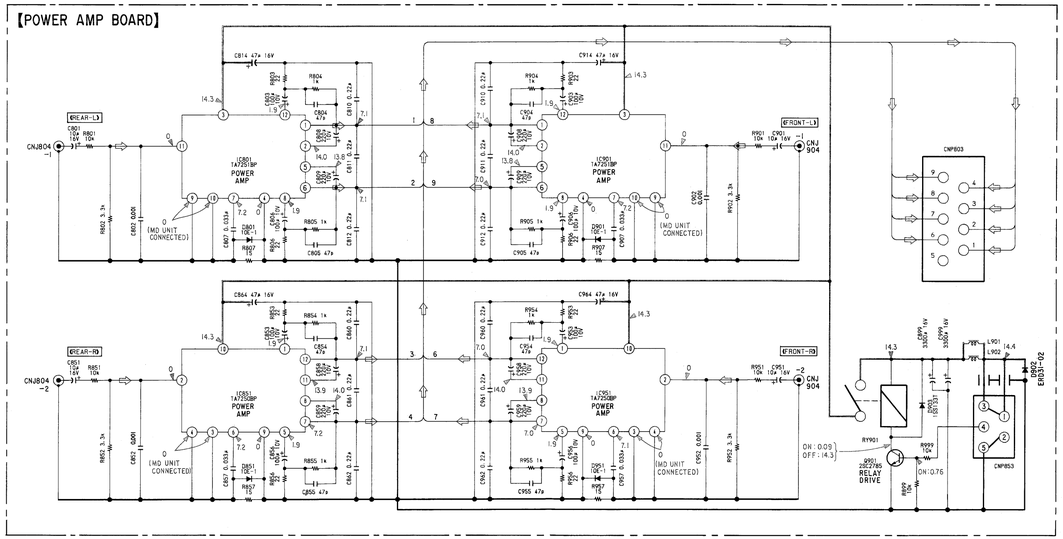








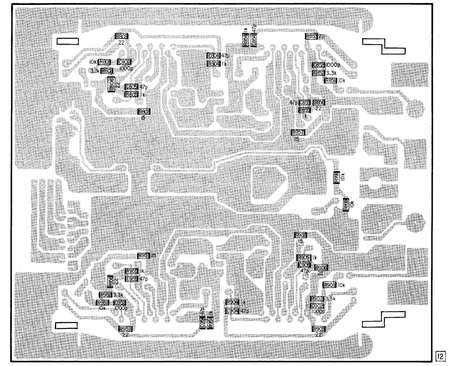
【POWER AMP BOARD】

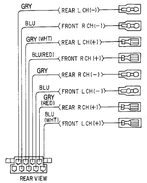


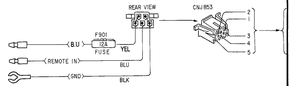
• **Semiconductor Location**

Ref. No.	Location
D801	H-9
D851	I-9
D901	G-9
D902	H-5
D903	H-9
D951	G-9
IC901	F-8
IC951	F-6
Q901	H-9

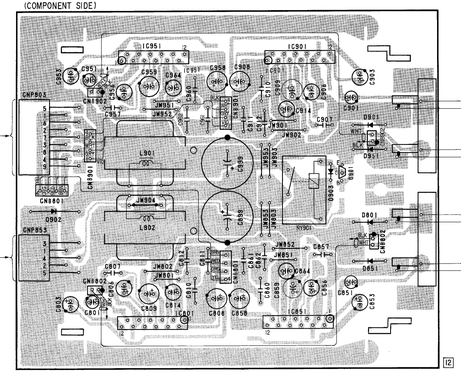
【POWER AMP BOARD】
(CONDUCTOR SIDE)







【POWER AMP BOARD】
(COMPONENT SIDE)



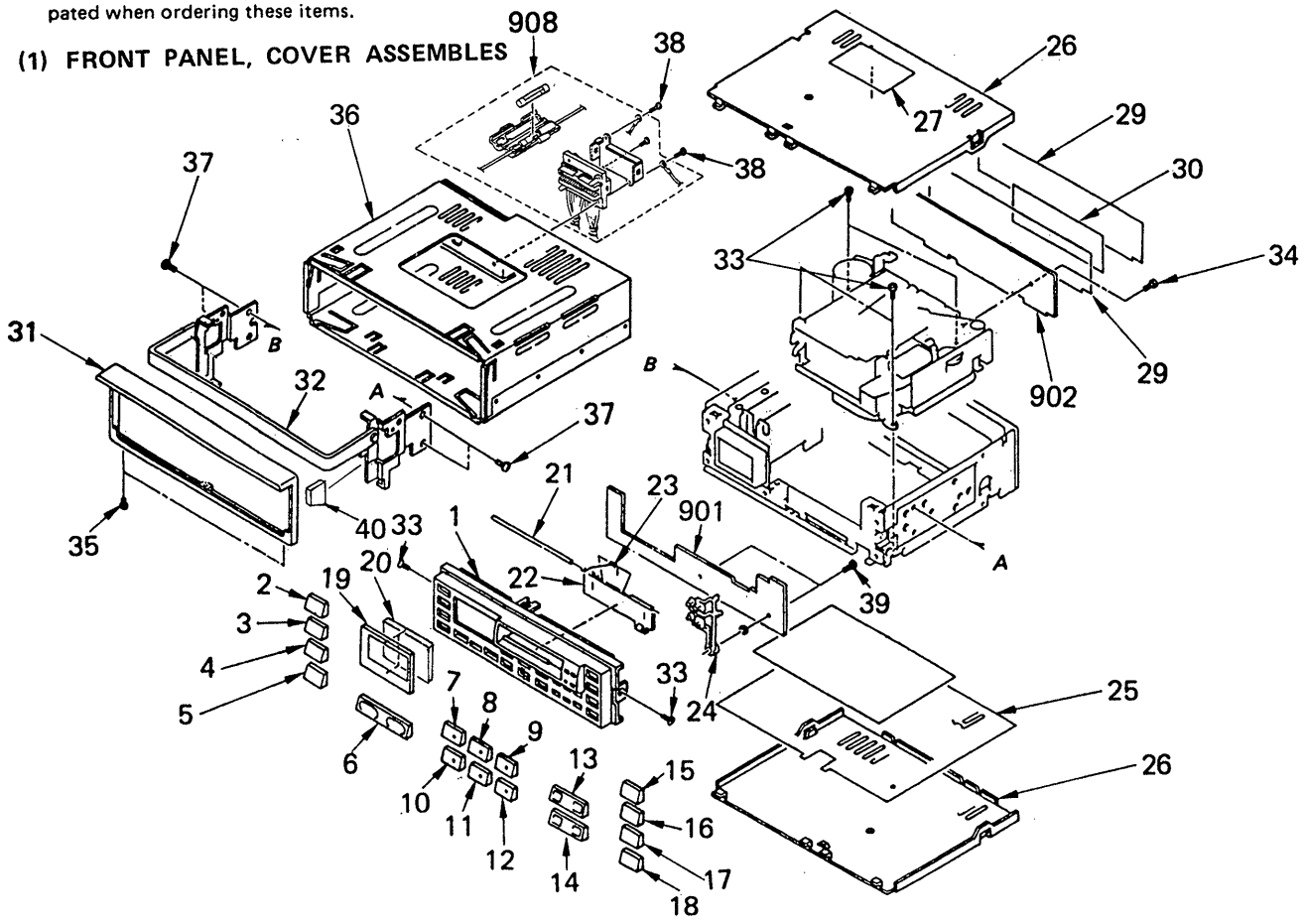
SECTION 5

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

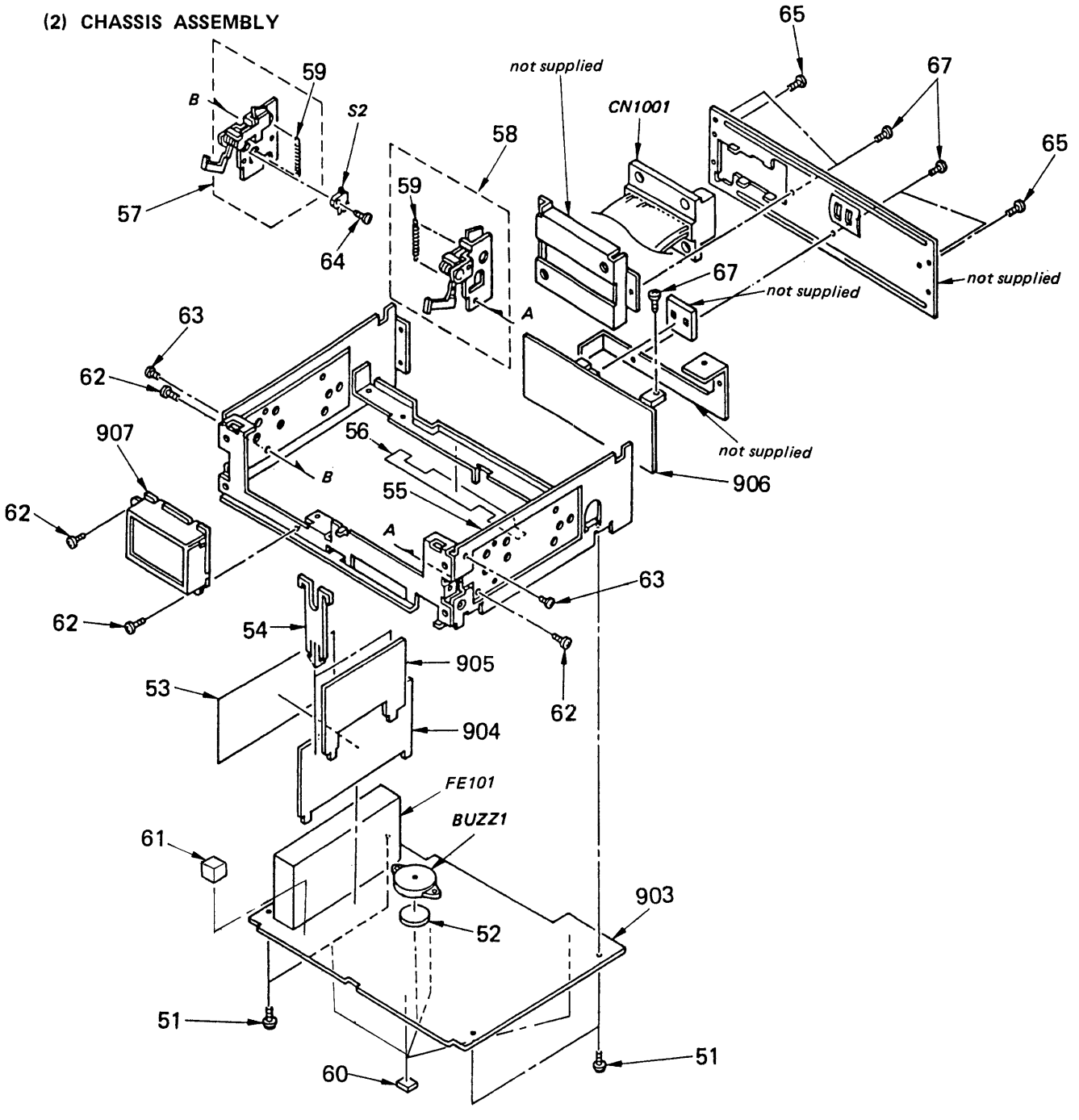
(1) FRONT PANEL, COVER ASSEMBLES



No.	Part No.	Description	Remarks
1	3-349-495-01	PANEL, FRONT	
2	3-349-475-01	BUTTON (LU:N1)(OFF)	
3	3-349-472-01	BUTTON (M:N1)(LOUD)	
4	3-349-472-11	BUTTON (M:N1)(SELECT)	
5	3-349-476-01	BUTTON (LD:N1)(MUTE)	
6	3-349-493-01	BUTTON (M:S3)(LEVEL)	
7	3-349-471-01	BUTTON (M:N1P)(1)	
8	3-349-471-11	BUTTON (M:N1P)(2)	
9	3-349-471-21	BUTTON (M:N1P)(3)	
10	3-349-471-31	BUTTON (M:N1P)(4)	
11	3-349-471-41	BUTTON (M:N1P)(5)	
12	3-349-471-51	BUTTON (M:N1P)(6)	
13	3-349-492-41	BUTTON (M:S2)(SEEK,AMS)	
14	3-349-492-11	BUTTON (M:S2)(MAN,DISK)	
15	3-349-473-01	BUTTON (RU:N1)(EJECT)	
16	3-349-472-61	BUTTON (M:N1)(TUNER)	
17	3-349-472-31	BUTTON (M:N1)(CD)	
18	3-349-474-41	BUTTON (RD:N1)(TAPE)	
19	3-353-441-02	PLATE, ORNAMENTAL	
20	3-357-058-01	PLATE, INDICATION	
21	3-332-130-01	SHAFT, C DOOR	

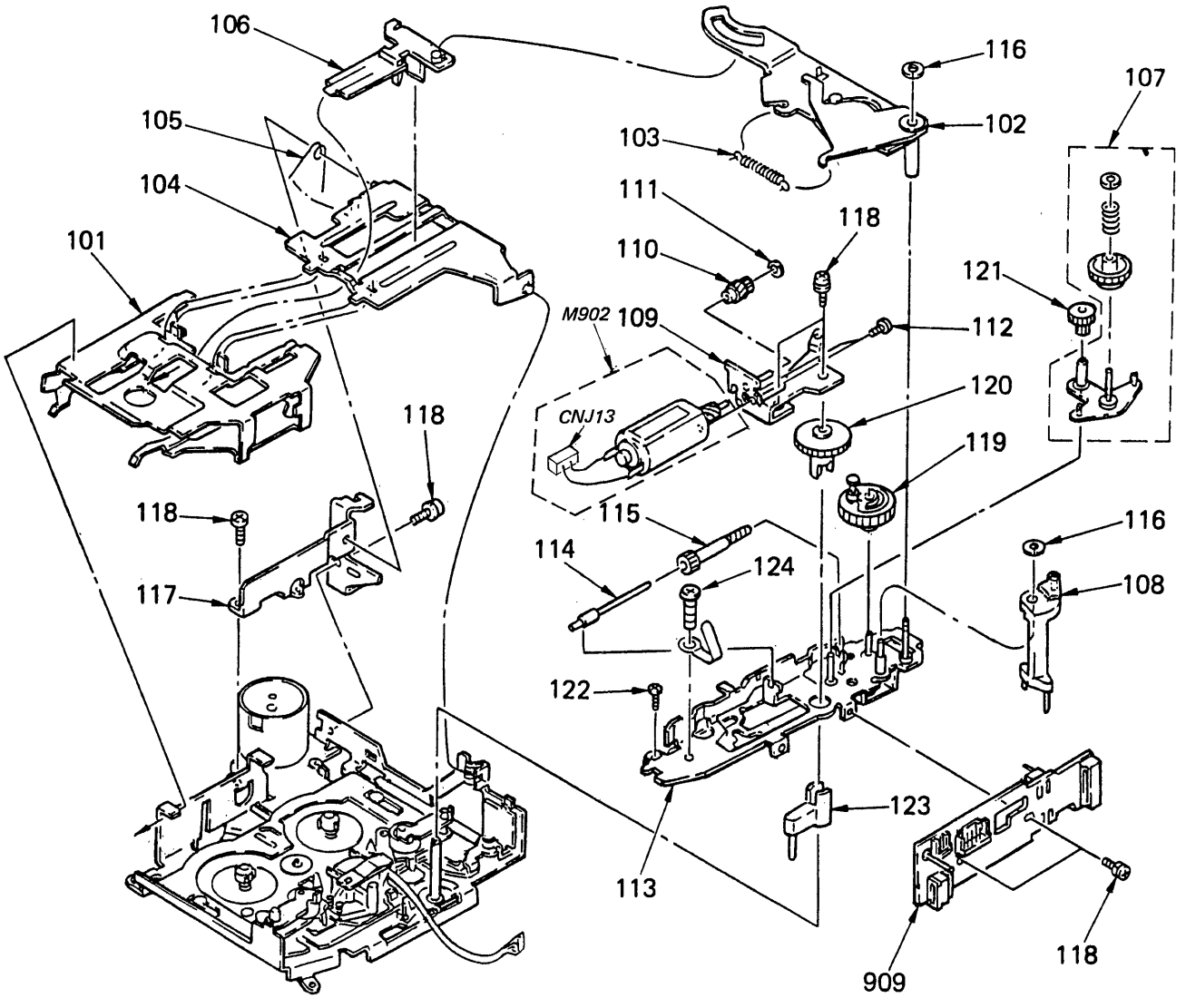
No.	Part No.	Description	Remarks
22	A-3249-563-A	DOOR ASSY, CASSETTE	
23	3-332-131-01	SPRING	
24	3-344-519-01	BUTTON (D)	
25	*3-344-560-01	INSULATOR (3)	
26	*3-353-402-11	COVER	
27	*3-357-060-01	LABEL, MODEL NUMBER (AE)	
29	*3-344-503-01	INSULATOR (2)	
30	*3-344-558-01	PLATE, SHIELD	
31	3-344-564-01	FRAME, ORNAMENTAL	
32	X-3344-508-1	HANDLE ASSY	
33	7-621-770-87	SCREW +PTT 2.6X5 (S)	
34	7-621-773-86	SCREW +PTT 2.6X4 (S)	
35	7-627-553-38	SCREW, PRECISION +P 2X3	
36	*X-3344-509-3	BRACKET ASSY	
37	3-344-561-01	SCREW (M4X5)	
38	7-682-652-09	SCREW +PSW 3X16	
39	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
40	3-344-526-02	BUTTON (RELEASE)	
901	*1-629-732-11	PC BOARD, DISPLAY	
902	*A-3217-409-A	PC BOARD ASSY, MECH CONTROL	
908	1-575-702-11	CORD (WITH CONNECTOR)	

(2) CHASSIS ASSEMBLY



No.	Part No.	Description	Remarks
51	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
52	9-911-839-XX	CUSHION, FIXED	
53	*3-344-502-01	INSULATOR (1)	
54	*3-344-504-01	BRACKET (PC BOARD)	
55	*X-3344-501-6	CHASSIS ASSY	
56	*3-344-589-01	INSULATOR (4)	
57	X-3344-502-1	LOCK ASSY (LEFT)	
58	X-3344-503-5	LOCK ASSY (R)	
59	3-645-189-00	SPRING, TENSION	
60	9-911-840-XX	CUSHION, CASSETTE LID	
61	3-831-441-XX	CUSHION (A)	
62	7-621-773-86	SCREW +PTT 2.6X4 (S)	
63	7-627-553-38	SCREW, PRECISION +P 2X3	
64	7-621-283-00	SCREW +P 2X5	
65	7-682-546-04	SCREW +PTT 3X5 (S)	
67	7-682-547-04	SCREW +PTT 3X6 (S)	
903	*A-3222-036-A	PC BOARD ASSY, MAIN	
904	*A-3270-737-A	MOUNTED PCB, DOLBY	
905	*1-624-417-11	PC BOARD, ARI	
906	*A-3270-738-A	MOUNTED PCB, SUB WOOFER	
907	1-808-670-11	DISPLAY PANEL, LIQUID CRYSTAL	
BUZZ1	1-529-055-11	BUZZER, PIEZOELECTRIC	
CN1001	1-574-537-11	CORD (WITH CONNECTOR)	
CNJ13	*1-563-470-11	HOUSING, CONNECTOR 2P	
FE101	1-465-008-21	TUNER UNIT (AM.FM)	
S2	1-570-771-11	SWITCH	

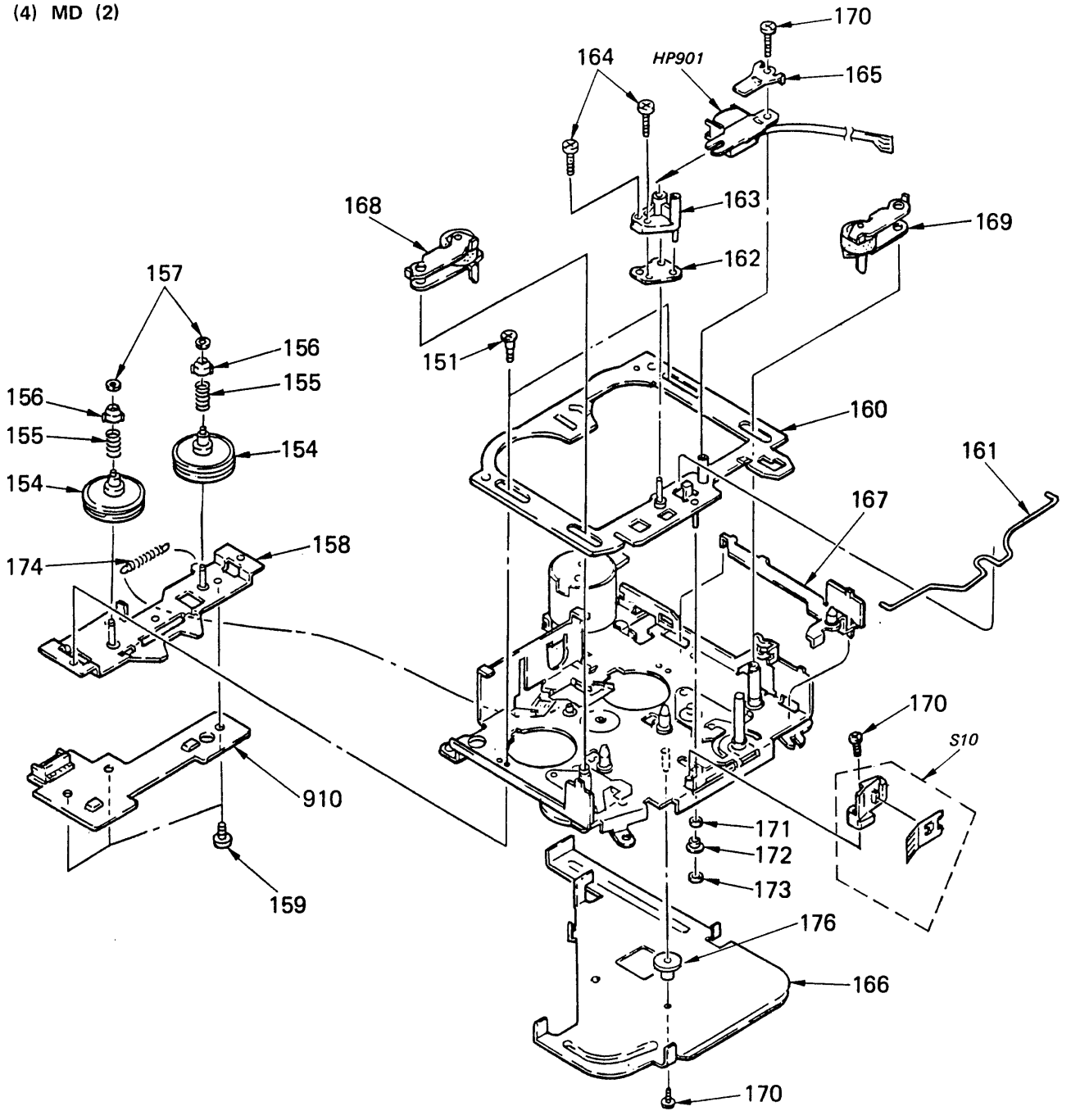
(3) MD (1)



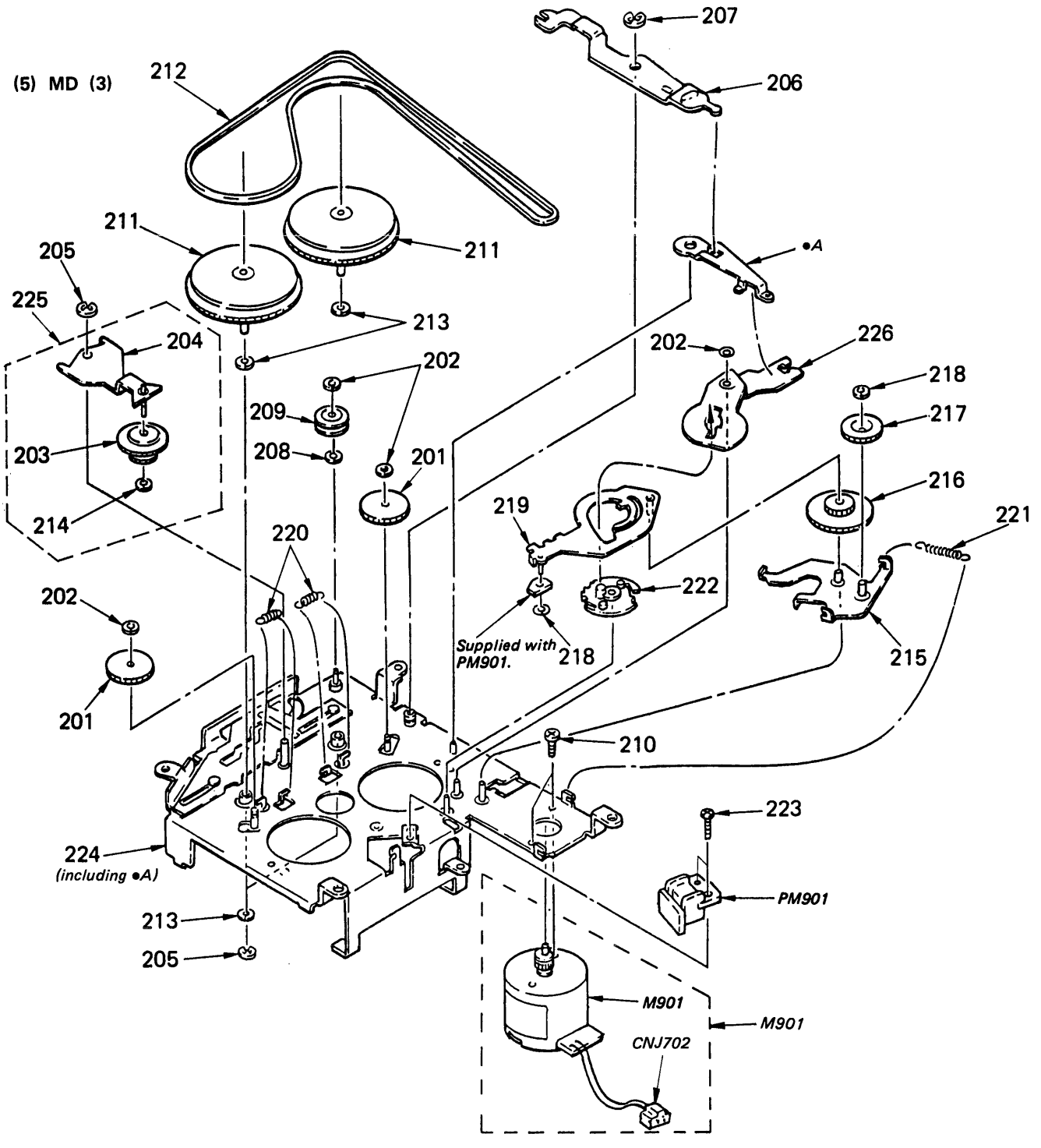
No.	Part No.	Description	Remarks
101	*3-344-103-01	HOUSING, CASSETTE	
102	*X-3344-121-1	ARM ASSY, SUCTION	
103	3-344-216-01	SPRING (SUCTION ARM), TENSION	
104	*X-3344-120-1	HANGER ASSY, HOUSING	
105	3-344-113-03	SPRING	
106	*3-344-118-01	CATCHER	
107	A-3239-954-A	GEAR ASSY, DRIVING ARM	
108	*X-3344-122-1	ARM ASSY, REVERSE	
109	*X-3344-110-1	BRACKET ASSY, MOTOR	
110	3-344-170-01	GEAR (A), DRIVING	
112	7-627-553-27	SCREW, PRECISION +P 2X2.5	
113	*X-3344-108-1	CHASSIS ASSY, MCU	
114	*3-344-157-01	SHAFT, DRIVING GEAR (B)	

No.	Part No.	Description	Remarks
115	3-344-156-01	GEAR (B), DRIVING	
116	3-344-222-01	WASHER	
117	*3-344-112-01	BRACKET, HANGER	
118	7-628-253-00	SCREW +PS 2X4	
119	X-3344-119-1	GEAR ASSY, LOADING CAM	
120	3-344-114-01	GEAR, MODE	
121	3-344-108-01	GEAR (A), FRICTION	
122	3-703-502-31	SCREW	
123	X-3344-117-1	ARM ASSY, MODE	
124	7-621-773-86	SCREW +PTT 2.6X4 (S)	
909	*1-624-413-11	PC BOARD, SWITCH	
M902	A-3239-956-B	MOTOR SUB ASSY, L	

(4) MD (2)

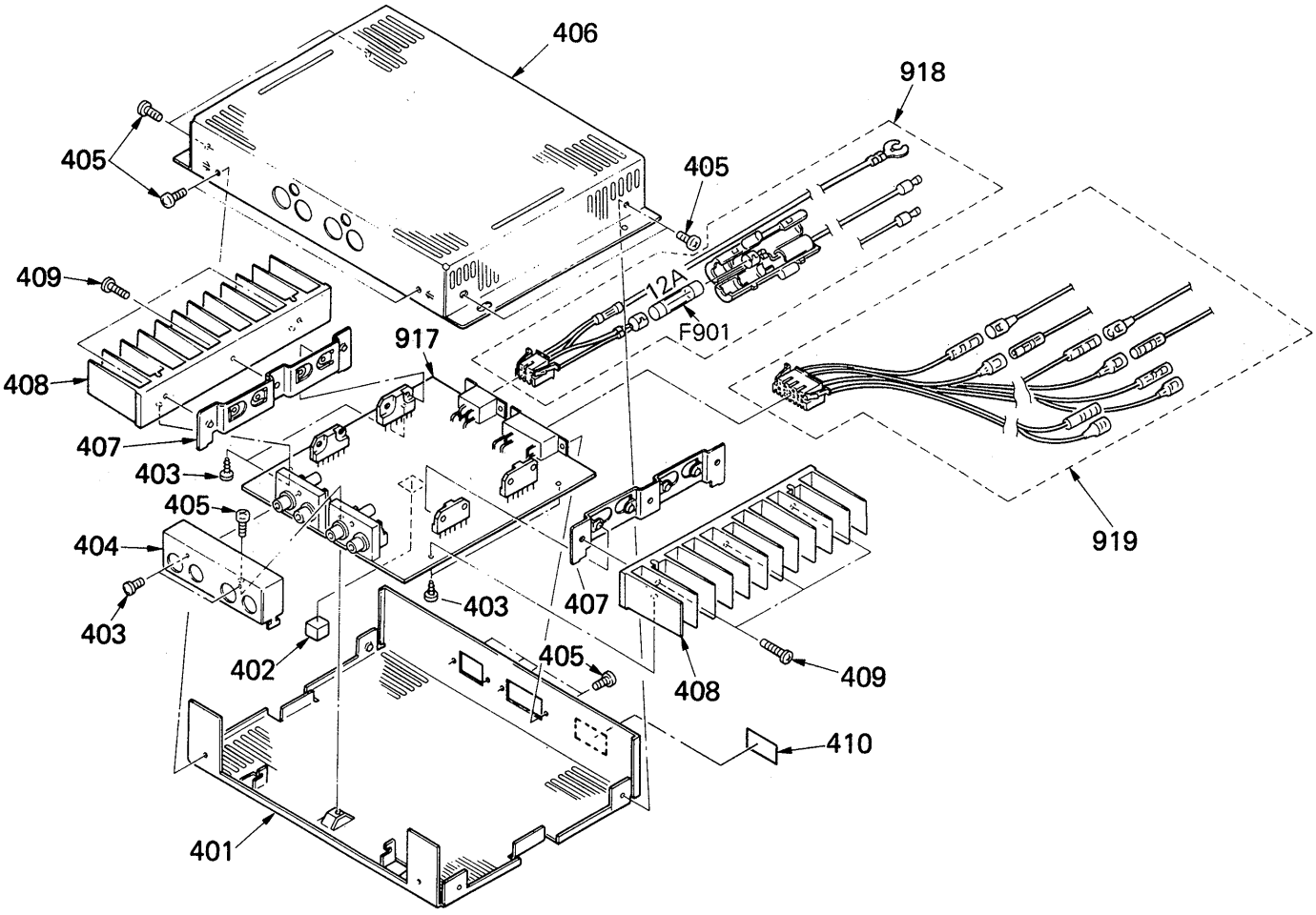


No.	Part No.	Description	Remarks
151	3-344-110-01	SCREW (HB), STEP	
154	X-3344-104-1	TABLE ASSY, REEL	
155	3-344-143-01	SPRING (BT), COMPRESSION	
156	3-344-136-01	CAP, REEL	
157	3-344-224-01	WASHER	
158	*X-3344-105-1	BRACKET ASSY, REEL TABLE	
159	7-627-553-27	SCREW, PRECISION +P 2X2.5	
160	*X-3344-103-1	BASE ASSY, HEAD	
161	3-344-129-01	SPRING	
162	3-344-128-01	SEAM, DAH	
163	3-344-127-01	ARM, DAH	
164	3-344-254-01	SCREW, ADJ	
165	3-344-130-01	RETAINER, HEAD	
166	*3-344-220-01	COVER, MD	
167	*X-3344-118-1	LEVER ASSY, RVS CONVERSION	
168	X-3344-116-1	ARM (F) ASSY, PINCH	
169	X-3344-115-1	ARM (R) ASSY, PINCH	
170	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
171	3-344-117-01	ROLLER (B), H/B	
172	3-344-116-01	ROLLER (A), H/B	
173	3-344-222-01	WASHER	
174	3-344-217-01	SPRING(CAM LOCK LEVER), TENTION	
176	3-344-251-01	RETAINER, MODE LEVER	
910	*1-624-412-11	PC BOARD, REEL	
HP901	1-543-567-11	HEAD, MAGNETIC (PLAYBACK)	
S10	A-3239-952-A	CONTACT ASSY	



No.	Part No.	Description	Remarks
201	3-344-104-01	GEAR, PLAY	
202	3-344-222-01	WASHER	
203	X-3344-102-1	GEAR ASSY, FR	
204	*X-3344-101-1	ARM ASSY, FR	
205	3-590-768-00	RING (A), E	
206	*3-344-107-01	ARM, POWER	
207	7-624-104-04	STOP RING 2.0, TYPE -E	
208	3-701-436-01	WASHER, 1.6	
209	3-344-105-01	PULLEY (ASSY), MIDWAY	
210	7-627-553-27	SCREW, PRECISION +P 2X2.5	
211	3-344-231-01	FLYWHEEL (A)	
212	3-344-115-01	BELT	
213	3-701-437-11	POLY-SLIDER (A)	
214	3-344-224-01	WASHER	
215	*X-3344-106-1	LEVER ASSY, RVS GEAR (B)	
216	3-344-146-01	GEAR (B), RVS	
217	3-344-147-01	GEAR (A), RVS	
218	3-344-223-01	WASHER	
219	X-3344-107-1	LEVER ASSY, CAM LOCK	
220	3-344-218-02	SPRING (PLAY ARM), TENSION	
221	3-344-215-01	SPRING, TENSION	
222	3-344-119-01	GEAR, RVS CAM	
223	7-627-850-67	SCREW, PRECISION +P 1.4X4	
224	*X-3344-135-1	CHASSIS ASSY, MECHANICAL	
225	A-3239-947-A	GEAR SUB ASSY, FR	203,204,214
226	*X-3344-114-1	LEVER ASSY, RVS	
M901	X-3344-136-1	MOTOR ASSY, CAPSTAN	
PM901	1-454-461-11	SOLENOID, PLUNGER	
CNJ702	*1-563-470-11	HOUSING, CONNECTOR 2P	

(6) POWER AMPLIFIER SECTION



No.	Part No.	Description	Remarks
401	*3-342-243-01	CASE (LOWER)	
402	9-911-841-XX	CUSHION (B)	
403	7-685-646-79	SCREW +P 3X8 TYPE2 SLIT	
404	*3-342-223-01	BRACKET, JACK	
405	7-682-547-04	SCREW +PTT 3X6 (S)	
406	*3-342-242-01	CASE (UPPER)	
407	*3-339-415-01	BRACKET, IC	
408	*3-342-225-01	HEAT SINK	
409	7-682-550-04	SCREW +PTT 3X12 (S)	
917	*A-3216-271-A	MOUNTED PCB, POWER AMPLIFIER	
918	1-575-701-11	CORD (WITH CONNECTOR)	
919	1-559-200-21	CORD (WITH CONNECTOR)	
F901	1-532-678-11	FUSE, GLASS TUBE (12A)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			
901	*1-629-732-11	PC BOARD, DISPLAY			
902	*A-3217-409-A	PC BOARD ASSY, MECH CONTROL			
903	*A-3222-036-A	PC BOARD ASSY, MAIN			
904	*A-3270-737-A	MOUNTED PCB, DOLBY			
905	*1-624-417-11	PC BOARD, ARI			
906	*A-3270-738-A	MOUNTED PCB, SUB WOOFER			
907	1-808-670-11	DISPLAY PANEL, LIQUID CRYSTAL			
908	1-575-702-11	CORD (WITH CONNECTOR)			
909	*1-624-413-11	PC BOARD, SWITCH			
910	*1-624-412-11	PC BOARD, REEL			
917	*A-3216-271-A	MOUNTED PCB, POWER AMPLIFIER			
918	1-575-701-11	CORD (WITH CONNECTOR)			
919	1-559-200-21	CORD (WITH CONNECTOR)			
BUZZ1	1-529-055-11	BUZZER, PIEZOELECTRIC			
C1	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C2	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C3	1-130-483-00	MYLAR	0.01MF	5%	50V
C4	1-126-162-11	ELECT	3.3MF	20%	50V
C5	1-126-162-11	ELECT	3.3MF	20%	50V
C6	1-124-584-00	ELECT	100MF	20%	10V
C7	1-126-154-11	ELECT	47MF	20%	6.3V
C8	1-163-161-00	CERAMIC CHIP	15PF	5%	50V
C9	1-163-161-00	CERAMIC CHIP	15PF	5%	50V
C10	1-124-638-11	ELECT	22MF	20%	10V
C11	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C12	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C13	1-131-379-00	TANTALUM	22MF	10%	6.3V
C14	1-125-486-11	ELECT	0.22F		5.5V
C15	1-124-225-00	ELECT	100MF	20%	6.3V
C16	1-124-438-00	ELECT	1MF	20%	50V
C17	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C18	1-124-257-00	ELECT	2.2MF	20%	50V
C19	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C20	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C21	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C22	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C23	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C24	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C26	1-124-442-00	ELECT	330MF	20%	6.3V
C27	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C31	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C32	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C33	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C34	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C35	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C36	1-124-225-00	ELECT	100MF	20%	6.3V
C40	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C101	1-126-163-11	ELECT	4.7MF	20%	50V
C102	1-124-638-11	ELECT	22MF	20%	10V
C103	1-163-053-00	CERAMIC CHIP	0.0033MF	10%	50V
C104	1-130-489-00	MYLAR	0.033MF	5%	50V
C105	1-124-638-11	ELECT	22MF	20%	10V
C106	1-126-163-11	ELECT	4.7MF	20%	50V
C107	1-163-203-00	CERAMIC CHIP	820PF	10%	50V
C108	1-163-197-00	CERAMIC CHIP	470PF	10%	50V
C109	1-130-483-00	MYLAR	0.01MF	5%	50V
C110	1-163-053-00	CERAMIC CHIP	0.0033MF	10%	50V
C111	1-163-053-00	CERAMIC CHIP	0.0033MF	10%	50V
C112	1-124-438-00	ELECT	1MF	20%	50V
C113	1-124-464-11	ELECT	0.22MF	20%	50V
C114	1-124-438-00	ELECT	1MF	20%	50V
C115	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
C152	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C153	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C154	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C155	1-124-446-11	ELECT	47MF	20%	10V
C156	1-124-589-11	ELECT	47MF	20%	10V
C157	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C201	1-136-367-11	FILM	470PF	5%	50V
C202	1-136-367-11	FILM	470PF	5%	50V
C203	1-126-154-11	ELECT	47MF	20%	6.3V
C204	1-130-483-00	FILM	0.01MF	5%	50V
C205	1-126-281-11	ELECT	4.7MF	20%	16V
C225	1-126-281-11	ELECT	4.7MF	20%	16V
C226	1-126-281-11	ELECT	4.7MF	20%	16V
C227	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
C228	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
C251	1-136-367-11	FILM	470PF	5%	50V
C252	1-136-367-11	FILM	470PF	5%	50V
C253	1-126-154-11	ELECT	47MF	20%	6.3V
C254	1-130-483-00	FILM	0.01MF	5%	50V
C255	1-126-281-11	ELECT	4.7MF	20%	16V
C275	1-126-281-11	ELECT	4.7MF	20%	16V
C276	1-126-281-11	ELECT	4.7MF	20%	16V
C277	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
C278	1-163-187-00	CERAMIC CHIP	180PF	5%	50V
C291	1-124-589-11	ELECT	47MF	20%	10V
C293	1-126-157-11	ELECT	10MF	20%	16V
C294	1-126-157-11	ELECT	10MF	20%	16V

Ref.No.	Part No.	Description			
C295	1-124-584-00	ELECT	100MF	20%	10V
C296	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C301	1-126-163-11	ELECT	4.7MF	20%	50V
C302	1-126-163-11	ELECT	4.7MF	20%	50V
C303	1-130-479-00	MYLAR	0.0047MF	5%	50V
C304	1-136-173-00	FILM	0.47MF	5%	50V
C305	1-136-167-00	FILM	0.15MF	5%	50V
C306	1-130-485-00	MYLAR	0.015MF	5%	50V
C307	1-136-169-00	FILM	0.22MF	5%	50V
C308	1-130-493-00	MYLAR	0.068MF	5%	50V
C309	1-130-491-00	MYLAR	0.047MF	5%	50V
C310	1-130-481-00	MYLAR	0.0068MF	5%	50V
C311	1-130-483-00	MYLAR	0.01MF	5%	50V
C312	1-126-176-11	ELECT	220MF	20%	10V
C351	1-126-163-11	ELECT	4.7MF	20%	50V
C352	1-126-163-11	ELECT	4.7MF	20%	50V
C353	1-130-479-00	MYLAR	0.0047MF	5%	50V
C354	1-136-173-00	FILM	0.47MF	5%	50V
C355	1-136-167-00	FILM	0.15MF	5%	50V
C356	1-130-485-00	MYLAR	0.015MF	5%	50V
C357	1-136-169-00	FILM	0.22MF	5%	50V
C358	1-130-493-00	MYLAR	0.068MF	5%	50V
C359	1-130-491-00	MYLAR	0.047MF	5%	50V
C360	1-130-481-00	MYLAR	0.0068MF	5%	50V
C361	1-130-483-00	MYLAR	0.01MF	5%	50V
C362	1-126-176-11	ELECT	220MF	20%	10V
C391	1-126-176-11	ELECT	220MF	20%	10V
C401	1-126-281-11	ELECT	4.7MF	20%	16V
C402	1-126-281-11	ELECT	4.7MF	20%	16V
C403	1-136-376-00	FILM	0.0027MF	5%	50V
C404	1-136-162-00	FILM	0.056MF	5%	50V
C405	1-136-162-00	FILM	0.056MF	5%	50V
C406	1-126-096-11	ELECT	10MF	20%	25V
C407	1-126-157-11	ELECT	10MF	20%	16V
C408	1-126-157-11	ELECT	10MF	20%	16V
C409	1-126-157-11	ELECT	10MF	20%	16V
C410	1-163-215-00	CERAMIC CHIP	0.0027MF	5%	50V
C411	1-126-157-11	ELECT	10MF	20%	16V
C412	1-126-159-11	ELECT	0.47MF	20%	50V
C413	1-126-157-11	ELECT	10MF	20%	16V
C414	1-126-157-11	ELECT	10MF	20%	16V
C415	1-126-281-11	ELECT	4.7MF	20%	16V
C416	1-126-281-11	ELECT	4.7MF	20%	16V
C417	1-124-589-11	ELECT	47MF	20%	10V
C418	1-124-589-11	ELECT	47MF	20%	10V
C419	1-124-225-00	ELECT	100MF	20%	6.3V
C420	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C421	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C422	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C423	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C451	1-126-281-11	ELECT	4.7MF	20%	16V
C452	1-126-281-11	ELECT	4.7MF	20%	16V
C453	1-136-376-00	FILM	0.0027MF	5%	50V
C454	1-136-162-00	FILM	0.056MF	5%	50V
C455	1-136-162-00	FILM	0.056MF	5%	50V
C456	1-126-096-11	ELECT	10MF	20%	25V
C457	1-126-157-11	ELECT	10MF	20%	16V

Ref.No.	Part No.	Description			
C458	1-126-157-11	ELECT	10MF	20%	16V
C459	1-126-157-11	ELECT	10MF	20%	16V
C460	1-163-215-00	CERAMIC CHIP	0.0027MF	5%	50V
C461	1-126-157-11	ELECT	10MF	20%	16V
C462	1-126-159-11	ELECT	0.47MF	20%	50V
C463	1-126-157-11	ELECT	10MF	20%	16V
C464	1-126-096-11	ELECT	10MF	20%	25V
C465	1-126-163-11	ELECT	4.7MF	20%	50V
C466	1-126-281-11	ELECT	4.7MF	20%	16V
C467	1-124-589-11	ELECT	47MF	20%	10V
C468	1-124-589-11	ELECT	47MF	20%	10V
C469	1-124-225-00	ELECT	100MF	20%	6.3V
C470	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C471	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C472	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C473	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C491	1-124-584-00	ELECT	100MF	20%	10V
C492	1-124-438-00	ELECT	1MF	20%	50V
C701	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C702	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C703	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C704	1-131-379-00	TANTALUM	22MF	10%	6.3V
C705	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C706	1-163-169-00	CERAMIC CHIP	33PF	5%	50V
C707	1-124-242-00	ELECT	33MF	20%	16V
C708	1-124-242-00	ELECT	33MF	20%	16V
C709	1-124-463-00	ELECT	0.1MF	20%	50V
C710	1-126-162-11	ELECT	3.3MF	20%	50V
C711	1-126-154-11	ELECT	47MF	20%	6.3V
C712	1-126-160-11	ELECT	1MF	20%	50V
C713	1-124-360-00	ELECT	1000MF	20%	16V
C714	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C715	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C716	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C801	1-126-157-11	ELECT	10MF	20%	16V
C802	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C803	1-124-443-00	ELECT	100MF	20%	10V
C804	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C805	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C806	1-124-443-00	ELECT	100MF	20%	10V
C807	1-130-489-00	MYLAR	0.033MF	5%	50V
C808	1-126-176-11	ELECT	220MF	20%	10V
C809	1-126-176-11	ELECT	220MF	20%	10V
C810	1-130-499-00	MYLAR	0.22MF	5%	50V
C811	1-130-499-00	MYLAR	0.22MF	5%	50V
C812	1-130-499-00	MYLAR	0.22MF	5%	50V
C814	1-124-477-11	ELECT	47MF	20%	16V
C851	1-126-157-11	ELECT	10MF	20%	16V
C852	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C853	1-124-443-00	ELECT	100MF	20%	10V
C854	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C855	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C856	1-124-443-00	ELECT	100MF	20%	10V
C857	1-130-489-00	MYLAR	0.033MF	5%	50V
C858	1-126-176-11	ELECT	220MF	20%	10V
C859	1-126-176-11	ELECT	220MF	20%	10V
C860	1-130-499-00	MYLAR	0.22MF	5%	50V

Ref.No.	Part No.	Description			
C861	1-130-499-00	MYLAR	0.22MF	5%	50V
C862	1-130-499-00	MYLAR	0.22MF	5%	50V
C864	1-124-477-11	ELECT	47MF	20%	16V
C899	1-124-887-00	ELECT	3300MF	20%	16V
C901	1-126-157-11	(POWER AMP)...ELECT	10MF	20%	16V
C901	1-163-197-00	(SUB WOOFER) ...CERAMIC CHIP	470PF	10%	50V
C902	1-124-360-00	(SUB WOOFER)...ELECT	1000MF	20%	16V
C902	1-163-205-00	(POWER AMP) ...CERAMIC CHIP	0.001MF	5%	50V
C903	1-124-443-00	ELECT	100MF	20%	10V
C904	1-124-589-11	(SUB WOOFER)...ELECT	47MF	20%	10V
C904	1-163-173-00	(POWER AMP) ...CERAMIC CHIP	47PF	5%	50V
C905	1-126-176-11	(SUB WOOFER)...ELECT	220MF	20%	10V
C905	1-163-173-00	(POWER AMP) ...CERAMIC CHIP	47PF	5%	50V
C906	1-126-157-11	(SUB WOOFER)...ELECT	10MF	20%	6.3V
C906	1-124-443-00	(POWER AMP)....ELECT	100MF	20%	10V
C907	1-126-094-11	(SUB WOOFER)...ELECT	4.7MF	20%	16V
C907	1-130-489-00	(POWER AMP)....MYLAR	0.033MF	5%	50V
C908	1-126-176-11	ELECT	220MF	20%	10V
C909	1-126-176-11	ELECT	220MF	20%	10V
C910	1-130-499-00	(POWER AMP)...MYLAR	0.22MF	5%	50V
C910	1-163-173-00	(SUB WOOFER) ...CERAMIC CHIP	47PF	5%	50V
C911	1-130-499-00	(POWER AMP)...MYLAR	0.22MF	5%	50V
C911	1-163-173-00	(SUB WOOFER) ...CERAMIC CHIP	47PF	5%	50V
C912	1-130-499-00	(POWER AMP)...MYLAR	0.22MF	5%	50V
C912	1-163-173-00	(SUB WOOFER) ...CERAMIC CHIP	47PF	5%	50V
C913	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C914	1-124-477-11	ELECT	47MF	20%	16V
C951	1-126-157-11	ELECT	10MF	20%	16V
C952	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C953	1-124-443-00	ELECT	100MF	20%	10V
C954	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C955	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C956	1-124-443-00	ELECT	100MF	20%	10V
C957	1-130-489-00	MYLAR	0.033MF	5%	50V
C958	1-126-176-11	ELECT	220MF	20%	10V
C959	1-126-176-11	ELECT	220MF	20%	10V
C960	1-130-499-00	MYLAR	0.22MF	5%	50V
C961	1-130-499-00	MYLAR	0.22MF	5%	50V
C962	1-130-499-00	MYLAR	0.22MF	5%	50V
C964	1-124-477-11	ELECT	47MF	20%	16V
C971	1-126-160-11	ELECT	1MF	20%	50V
C972	1-124-229-00	ELECT	33MF	20%	6.3V
C973	1-124-464-11	ELECT	0.22MF	20%	50V
C974	1-130-483-00	MYLAR	0.01MF	5%	50V
C975	1-124-252-00	ELECT	0.33MF	20%	50V
C976	1-126-094-11	ELECT	4.7MF	20%	35V
C977	1-124-229-00	ELECT	33MF	20%	10V
C999	1-124-887-00	ELECT	3300MF	20%	16V
CN1001	1-574-537-11	CORD (WITH CONNECTOR)			

Ref.No.	Part No.	Description
CNJ11	*1-563-464-11	SOCKET, CONNECTOR 10P
CNJ13	*1-563-470-11	HOUSING, CONNECTOR 2P
CNJ14	1-565-038-11	CONNECTOR, F.P.C 5P
CNJ101	*1-563-961-11	SOCKET, CONNECTOR
CNJ702	*1-563-470-11	HOUSING, CONNECTOR 2P
CNJ804	1-563-523-21	JACK, PIN 2P
CNJ904	1-563-523-21	JACK, PIN 2P
CNP1	*1-506-996-11	PIN, CONNECTOR (PC BOARD) 14P
CNP2	*1-506-989-11	PIN, CONNECTOR (PC BOARD) 7P
CNP3	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P
CNP4	*1-566-004-11	PIN, CONNECTOR (PC BOARD) 7P
CNP5	*1-566-004-21	PIN, CONNECTOR (PC BOARD) 7P
CNP6	*1-566-002-11	PIN, CONNECTOR (PC BOARD) 5P
CNP7	*1-566-001-11	PIN, CONNECTOR (PC BOARD) 4P
CNP8	*1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P
CNP9	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P
CNP12	*1-566-003-11	PIN, CONNECTOR (PC BOARD) 6P
CNP13	*1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P
CNP15	*1-566-002-11	PIN, CONNECTOR (PC BOARD) 5P
CNP201	*1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P
CNP301	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
CNP302	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
CNP303	*1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P
CNP304	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P
CNP401	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P
CNP701	*1-506-981-11	PIN, CONNECTOR 10P
CNP702	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P
CNP803	1-566-467-11	CONNECTOR 9P
CNP853	1-506-662-11	CONNECTOR
CNP901	*1-560-984-00	CONNECTOR (PLUG) 34P
CNP902	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P
CNP903	*1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
D1	8-719-110-14	DIODE RD9.1ES-B3
D2	8-719-109-88	DIODE RD5.6ES-B1
D4	8-719-911-19	DIODE 1SS119
D5	8-719-911-19	DIODE 1SS119
D6	8-719-911-19	DIODE 1SS119
D7	8-719-911-19	DIODE 1SS119
D8	8-719-911-19	DIODE 1SS119
D10	8-719-911-19	DIODE 1SS119
D14	8-719-911-19	DIODE 1SS119
D16	8-719-911-19	DIODE 1SS119
D17	8-719-109-96	DIODE RD6.8ES-B1
D18	8-719-104-31	DIODE MA152WK
D19	8-719-110-14	DIODE RD9.1ES-B3
D20	8-719-911-19	DIODE 1SS119
D21	8-719-109-98	DIODE RD6.8ES-B3
D22	8-719-109-98	DIODE RD6.8ES-B3
D23	8-719-109-98	DIODE RD6.8ES-B3
D24	8-719-109-98	DIODE RD6.8ES-B3
D25	8-719-109-98	DIODE RD6.8ES-B3
D26	8-719-109-84	DIODE RD5.1ES-B1
D27	8-719-109-98	DIODE RD6.8ES-B3
D28	8-719-911-19	DIODE 1SS119
D29	8-719-911-19	DIODE 1SS119
D30	8-719-110-09	DIODE RD8.2ES-B3

Ref.No.	Part No.	Description
D31	8-719-911-19	DIODE 1SS119
D32	8-719-911-19	DIODE 1SS119
D33	8-719-110-09	DIODE RD8.2ES-B3
D34	8-719-400-18	DIODE MA152WK
D60	8-719-976-19	DIODE RLS-4148
D101	8-719-104-34	DIODE 1S2836
D102	8-719-104-34	DIODE 1S2836
D201	8-719-110-03	DIODE RD7.5ES-B2
D202	8-719-976-19	DIODE RLS-4148
D401	8-719-109-74	DIODE RD4.3ES-B1
D451	8-719-109-74	DIODE RD4.3ES-B1
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-400-18	DIODE MA152WK
D706	8-719-400-18	DIODE MA152WK
D707	8-719-110-21	DIODE RD11ES-B1
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D711	8-719-911-19	DIODE 1SS119
D801	8-719-404-22	(DISPLAY).....DIODE LN1451C
D801	8-719-928-26	(POWER AMP)...DIODE DSA1A2
D802	8-719-404-22	DIODE LN1451C
D803	8-719-404-22	DIODE LN1451C
D804	8-719-404-22	DIODE LN1451C
D805	8-719-404-22	DIODE LN1451C
D806	8-719-404-22	DIODE LN1451C
D807	8-719-404-22	DIODE LN1451C
D808	8-719-404-22	DIODE LN1451C
D809	8-719-404-22	DIODE LN1451C
D810	8-719-404-22	DIODE LN1451C
D811	8-719-404-22	DIODE LN1451C
D812	8-719-404-22	DIODE LN1451C
D813	8-719-404-22	DIODE LN1451C
D814	8-719-404-22	DIODE LN1451C
D815	8-719-404-22	DIODE LN1451C
D816	8-719-404-22	DIODE LN1451C
D817	8-719-404-22	DIODE LN1451C
D818	8-719-404-22	DIODE LN1451C
D819	8-719-404-22	DIODE LN1451C
D820	8-719-404-22	DIODE LN1451C
D821	8-719-404-22	DIODE LN1451C
D822	8-719-404-22	DIODE LN1451C
D823	8-719-404-22	DIODE LN1451C
D824	8-719-404-22	DIODE LN1451C
D825	8-719-404-22	DIODE LN1451C
D851	8-719-928-26	DIODE DSA1A2
D901	8-719-900-95	(SUB WOOFER)...DIODE V09G
D901	8-719-928-26	(POWER AMP)....DIODE DSA1A2
D902	8-719-200-02	(SUB WOOFER)...DIODE 10E-2
D902	8-719-931-04	(POWER AMP)....DIODE ERD31-04
D903	8-719-911-19	DIODE 1SS119
D905	8-719-110-13	DIODE RD9.1ES-B2
D906	8-719-109-80	DIODE RD4.7ES-B1
D951	8-719-928-26	DIODE DSA1A2

Ref.No.	Part No.	Description
FE101	1-465-008-21	TUNER UNIT (AM.FM)
F901	1-532-678-11	FUSE, GLASS TUBE (12A)
HP901	1-543-567-11	HEAD, MAGNETIC (PLAYBACK)
HY101	1-808-515-11	IC NMX3S900
IC1	8-759-803-37	IC LM7001
IC2	8-759-147-18	IC UPD75112GF-540-3BE
IC3	8-752-330-59	IC CXK1011P
IC4	8-759-940-45	IC S-8054HN-C3
IC201	8-759-206-48	IC TA7705F
IC202	8-759-909-71	IC BA4558F
IC301	8-759-932-54	IC BU4066BF
IC302	8-752-018-70	IC CX20187
IC401	8-759-932-54	IC BU4066BF
IC402	8-759-820-15	IC LC7537AN
IC403	8-759-604-56	IC M5228FP
IC404	8-759-604-56	IC M5228FP
IC405	8-759-604-56	IC M5228FP
IC701	8-759-147-32	IC UPD7508HG-662-22
IC702	8-759-932-54	IC BU4066BF
IC703	8-759-909-71	IC BA4558F
IC704	8-759-600-24	IC M54543L
IC801	8-759-208-64	IC TA7251BP
IC851	1-807-427-11	IC TA7250BP
IC901	8-759-208-64	(POWER AMP)....IC TA7251BP
IC901	8-759-909-71	(SUB WOOFER)...IC BA4558F
IC951	1-807-427-11	IC TA7250BP
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR6	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR12	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR13	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR22	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR301	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR302	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR303	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR304	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR305	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR306	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR701	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR702	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR703	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR704	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR705	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR708	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR709	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR710	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR711	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR712	1-216-296-00	METAL GLAZE 0 5% 1/8W

Ref.No.	Part No.	Description
JR713	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR716	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR902	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR903	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR904	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR905	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR906	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR907	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR908	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR909	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR910	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR911	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR913	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR914	1-216-296-00	METAL GLAZE 0 5% 1/8W
L1	1-410-513-11	INDUCTOR 22UH
L2	1-410-336-11	INDUCTOR 220UH
L101	1-410-513-11	INDUCTOR 22UH
L102	1-410-521-11	INDUCTOR 100UH
L103	1-410-316-11	INDUCTOR 1UH
L301	1-235-186-00	ENCAPSULATED COMPONENT
L351	1-235-186-00	ENCAPSULATED COMPONENT
L701	1-410-336-11	INDUCTOR 220UH
L702	1-408-111-00	INDUCTOR 3.3UH
L901	1-421-369-00	COIL, CHOKE
L902	1-421-369-00	COIL, CHOKE
M901	X-3344-136-1	MOTOR ASSY, CAPSTAN
M902	A-3239-956-B	MOTOR SUB ASSY, L
PH11	8-719-939-11	GP2S09-B
PH12	8-719-939-11	GP2S09-B
PM901	1-454-461-11	SOLENOID, PLUNGER
Q1	8-729-271-22	TRANSISTOR 2SC2712G
Q2	8-729-271-22	TRANSISTOR 2SC2712G
Q4	8-729-106-68	TRANSISTOR 2SD1615A-GP
Q5	8-729-106-60	TRANSISTOR 2SB1115A
Q6	8-729-216-22	TRANSISTOR 2SA1162
Q7	8-729-900-53	TRANSISTOR DTC114EK
Q8	8-729-216-22	TRANSISTOR 2SA1162
Q9	8-729-901-05	TRANSISTOR DTA124EK
Q10	8-729-271-22	TRANSISTOR 2SC2712G
Q11	8-729-901-01	TRANSISTOR DTC144EK
Q12	8-729-901-05	TRANSISTOR DTA124EK
Q14	8-729-106-68	TRANSISTOR 2SD1615A-GP
Q15	8-729-271-22	TRANSISTOR 2SC2712G
Q16	8-729-900-53	TRANSISTOR DTC114EK
Q17	8-729-901-00	TRANSISTOR DTC124EK
Q18	8-729-820-68	TRANSISTOR 2SD1802FA
Q19	8-729-271-22	TRANSISTOR 2SC2712G
Q20	8-729-901-01	TRANSISTOR DTC124EK
Q21	8-729-820-68	TRANSISTOR 2SD1802FA
Q22	8-729-901-00	TRANSISTOR DTC124EK
Q23	8-729-901-04	TRANSISTOR DTA114EK
Q24	8-729-216-22	TRANSISTOR 2SA1162
Q101	8-729-271-22	TRANSISTOR 2SC2712G
Q102	8-729-901-05	TRANSISTOR DTA124EK

Ref.No.	Part No.	Description
Q103	8-729-216-22	TRANSISTOR 2SA1162
Q104	8-729-901-00	TRANSISTOR DTC124EK
Q105	8-729-901-05	TRANSISTOR DTA124EK
Q391	8-729-901-01	TRANSISTOR DTC144EK
Q392	8-729-900-53	TRANSISTOR DTC114EK
Q401	8-729-901-05	TRANSISTOR DTA124EK
Q701	8-729-271-22	TRANSISTOR 2SC2712G
Q702	8-729-271-22	TRANSISTOR 2SC2712G
Q703	8-729-901-00	TRANSISTOR DTC124EK
Q704	8-729-901-00	TRANSISTOR DTC124EK
Q705	8-729-820-68	TRANSISTOR 2SD1802FA
Q706	8-729-216-22	TRANSISTOR 2SA1162
Q707	8-729-271-22	TRANSISTOR 2SC2712G
Q708	8-729-106-60	TRANSISTOR 2SB1115A
Q709	8-729-901-00	TRANSISTOR DTC124EK
Q850	8-729-102-14	TRANSISTOR 2SD1021
Q860	8-729-102-14	TRANSISTOR 2SD1021
Q901	8-729-105-29	(SUB WOOFER)....TRANSISTOR 2SA1385
Q901	8-729-119-78	(POWER AMP)...TRANSISTOR 2SC2785-HFE
Q902	8-729-271-22	TRANSISTOR 2SC2712G
Q903	8-729-271-22	TRANSISTOR 2SC2712G
Q910	8-729-804-91	TRANSISTOR 2SD1682
Q913	8-729-901-01	TRANSISTOR DTC144EK
Q914	8-729-216-22	TRANSISTOR 2SA1162
Q915	8-729-901-00	TRANSISTOR DTC124EK
Q916	8-729-261-22	TRANSISTOR 2SA1162
Q950	8-729-102-14	TRANSISTOR 2SD1021
Q951	8-729-102-14	TRANSISTOR 2SD1021
Q960	8-729-102-14	TRANSISTOR 2SD1021
R1	1-216-204-00	METAL GLAZE 1.8K 5% 1/8W
R2	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R3	1-216-208-00	METAL GLAZE 2.7K 5% 1/8W
R4	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R6	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R7	1-216-196-00	METAL GLAZE 820 5% 1/8W
R8	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R9	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R10	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R11	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R12	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R13	1-216-174-00	METAL GLAZE 100 5% 1/8W
R14	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R15	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R16	1-215-859-00	METAL OXIDE 22 5% 1W F
R17	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R18	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R19	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R20	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R21	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R22	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R23	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R25	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R26	1-216-210-00	METAL GLAZE 3.3K 5% 1/8W
R27	1-216-234-00	METAL GLAZE 33K 5% 1/8W
R28	1-216-174-00	METAL GLAZE 100 5% 1/8W
R29	1-216-174-00	METAL GLAZE 100 5% 1/8W

Ref.No.	Part No.	Description			
R30	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R31	1-216-174-00	METAL GLAZE	100	5%	1/8W
R32	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R34	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R35	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R36	1-216-224-00	METAL GLAZE	12K	5%	1/8W
R37	1-216-150-00	METAL GLAZE	10	5%	1/8W
R38	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R39	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R40	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R41	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R42	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R43	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R44	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R45	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R46	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R47	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R50	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R51	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R54	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R55	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R101	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R102	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R103	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R104	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W
R105	1-216-228-00	METAL GLAZE	18K	5%	1/8W
R106	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R107	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R108	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R109	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R110	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R111	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W
R112	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R113	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R114	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R115	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R116	1-216-224-00	METAL GLAZE	12K	5%	1/8W
R117	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R118	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R119	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R151	1-216-242-00	METAL GLAZE	68K	5%	1/8W
R152	1-216-242-00	METAL GLAZE	68K	5%	1/8W
R201	1-216-180-00	METAL GLAZE	180	5%	1/8W
R202	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R203	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R204	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R205	1-216-225-00	METAL GLAZE	13K	5%	1/8W
R206	1-216-225-00	METAL GLAZE	13K	5%	1/8W
R225	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R226	1-216-204-00	METAL GLAZE	1.8K	5%	1/8W
R227	1-216-229-00	METAL GLAZE	20K	5%	1/8W
R228	1-216-229-00	METAL GLAZE	20K	5%	1/8W
R229	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R230	1-216-228-00	METAL GLAZE	18K	5%	1/8W
R231	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R251	1-216-180-00	METAL GLAZE	180	5%	1/8W
R252	1-216-258-00	METAL GLAZE	330K	5%	1/8W

Ref.No.	Part No.	Description			
R253	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R254	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R255	1-216-225-00	METAL GLAZE	13K	5%	1/8W
R256	1-216-225-00	METAL GLAZE	13K	5%	1/8W
R275	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R276	1-216-204-00	METAL GLAZE	1.8K	5%	1/8W
R277	1-216-229-00	METAL GLAZE	20K	5%	1/8W
R278	1-216-229-00	METAL GLAZE	20K	5%	1/8W
R279	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R280	1-216-228-00	METAL GLAZE	18K	5%	1/8W
R281	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R291	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R293	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R294	1-216-174-00	METAL GLAZE	100	5%	1/8W
R295	1-216-174-00	METAL GLAZE	100	5%	1/8W
R296	1-216-224-00	METAL GLAZE	12K	5%	1/8W
R301	1-216-204-00	METAL GLAZE	1.8K	5%	1/8W
R302	1-215-433-00	METAL	3.3K	1%	1/6W
R303	1-216-189-00	METAL GLAZE	430	5%	1/8W
R304	1-215-433-00	METAL	3.3K	1%	1/6W
R305	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R306	1-216-194-00	METAL GLAZE	680	5%	1/8W
R351	1-216-204-00	METAL GLAZE	1.8K	5%	1/8W
R352	1-215-433-00	METAL	3.3K	1%	1/6W
R353	1-216-189-00	METAL GLAZE	430	5%	1/8W
R354	1-215-433-00	METAL	3.3K	1%	1/6W
R355	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R356	1-216-194-00	METAL GLAZE	680	5%	1/8W
R391	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R392	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R393	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R394	1-215-469-00	METAL	100K	1%	1/6W
R395	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R396	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R401	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R402	1-216-232-00	METAL GLAZE	27K	5%	1/8W
R403	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R404	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R405	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R406	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R407	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R408	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R409	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R410	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R411	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R412	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R413	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R414	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R415	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R416	1-216-217-00	METAL GLAZE	6.2K	5%	1/8W
R417	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R418	1-216-244-00	METAL GLAZE	82K	5%	1/8W
R419	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R420	1-216-244-00	METAL GLAZE	82K	5%	1/8W
R451	1-216-240-00	METAL GLAZE	56K	5%	1/8W
R452	1-216-232-00	METAL GLAZE	27K	5%	1/8W
R453	1-216-270-00	METAL GLAZE	1M	5%	1/8W

Ref.No.	Part No.	Description			
R454	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R455	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R456	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R457	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R458	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R459	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R460	1-216-270-00	METAL GLAZE	1M	5%	1/8W
R461	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R462	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R463	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R464	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R465	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R466	1-216-217-00	METAL GLAZE	6.2K	5%	1/8W
R467	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R468	1-216-244-00	METAL GLAZE	82K	5%	1/8W
R469	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R470	1-216-244-00	METAL GLAZE	82K	5%	1/8W
R490	1-216-150-00	METAL GLAZE	10	5%	1/8W
R491	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R493	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R494	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R496	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R497	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R498	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R499	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R701	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R702	1-216-258-00	METAL GLAZE	330K	5%	1/8W
R703	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R704	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R705	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R706	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R707	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R708	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R709	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R710	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R711	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R712	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R713	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R714	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R715	1-216-236-00	METAL GLAZE	39K	5%	1/8W
R717	1-216-236-00	METAL GLAZE	39K	5%	1/8W
R718	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R720	1-216-250-00	METAL GLAZE	150K	5%	1/8W
R721	1-216-192-00	METAL GLAZE	560	5%	1/8W
R722	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R723	1-216-226-00	METAL GLAZE	15K	5%	1/8W
R724	1-216-192-00	METAL GLAZE	560	5%	1/8W
R725	1-216-192-00	METAL GLAZE	560	5%	1/8W
R726	1-216-208-00	METAL GLAZE	2.7K	5%	1/8W
R727	1-216-182-00	METAL GLAZE	220	5%	1/8W
R728	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R729	1-216-190-00	METAL GLAZE	470	5%	1/8W
R731	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R732	1-216-170-00	METAL GLAZE	68	5%	1/8W
R733	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R734	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R735	1-216-238-00	METAL GLAZE	47K	5%	1/8W

Ref.No.	Part No.	Description			
R736	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R737	1-216-228-00	METAL GLAZE	18K	5%	1/8W
R738	1-216-236-00	METAL GLAZE	39K	5%	1/8W
R739	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W
R740	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R741	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R742	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R743	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R744	1-216-242-00	METAL GLAZE	68K	5%	1/8W
R745	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R746	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R801	1-216-185-00	(DISPLAY).....METAL GLAZE 300		5%	1/8W
R801	1-216-222-00	(POWER AMP)...METAL GLAZE 10K		5%	1/8W
R802	1-216-185-00	(DISPLAY).....METAL GLAZE 300		5%	1/8W
R802	1-216-210-00	(POWER AMP)...METAL GLAZE 3.3K		5%	1/8W
R803	1-216-158-00	(POWER AMP)...METAL GLAZE 22		5%	1/8W
R803	1-216-178-00	(DISPLAY).....METAL GLAZE 150		5%	1/8W
R804	1-216-178-00	(DISPLAY).....METAL GLAZE 150		5%	1/8W
R804	1-216-198-00	(POWER AMP)...METAL GLAZE 1K		5%	1/8W
R805	1-216-178-00	(DISPLAY).....METAL GLAZE 150		5%	1/8W
R805	1-216-198-00	(POWER AMP)...METAL GLAZE 1K		5%	1/8W
R806	1-216-158-00	(POWER AMP)...METAL GLAZE 22		5%	1/8W
R806	1-216-178-00	(DISPLAY).....METAL GLAZE 150		5%	1/8W
R807	1-216-154-00	(POWER AMP)...METAL GLAZE 15		5%	1/8W
R807	1-216-178-00	(DISPLAY).....METAL GLAZE 150		5%	1/8W
R808	1-216-178-00	METAL GLAZE	150	5%	1/8W
R809	1-216-178-00	METAL GLAZE	150	5%	1/8W
R810	1-216-178-00	METAL GLAZE	150	5%	1/8W
R851	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R852	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R853	1-216-158-00	(POWER AMP)....METAL GLAZE 22		5%	1/8W
R853	1-216-230-00	(SUB WOOFER)...METAL GLAZE 22K		5%	1/8W
R854	1-216-198-00	(POWER AMP)....METAL GLAZE 1K		5%	1/8W
R854	1-216-198-00	(SUB WOOFER)...METAL GLAZE 1K		5%	1/8W
R855	1-216-198-00	(POWER AMP)....METAL GLAZE 1K		5%	1/8W
R855	1-216-198-00	(SUB WOOFER)...METAL GLAZE 1K		5%	1/8W
R856	1-216-158-00	METAL GLAZE	22	5%	1/8W
R857	1-216-154-00	METAL GLAZE	15	5%	1/8W
R860	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R861	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R863	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R899	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R901	1-216-198-00	(SUB WOOFER)...METAL GLAZE 1K		5%	1/8W
R901	1-216-222-00	(POWER AMP)....METAL GLAZE 10K		5%	1/8W
R902	1-216-198-00	(SUB WOOFER)...METAL GLAZE 1K		5%	1/8W
R902	1-216-210-00	(POWER AMP)....METAL GLAZE 3.3K		5%	1/8W
R903	1-216-158-00	(POWER AMP)....METAL GLAZE 22		5%	1/8W
R903	1-216-206-00	(SUB WOOFER)...METAL GLAZE 2.2K		5%	1/8W
R904	1-216-198-00	(POWER AMP)....METAL GLAZE 1K		5%	1/8W
R904	1-216-222-00	(SUB WOOFER)...METAL GLAZE 10K		5%	1/8W
R905	1-216-198-00	(POWER AMP)....METAL GLAZE 1K		5%	1/8W
R905	1-216-222-00	(SUB WOOFER)...METAL GLAZE 10K		5%	1/8W

Ref.No.	Part No.	Description
R906	1-216-158-00	METAL GLAZE 22 5% 1/8W
R907	1-216-154-00	(POWER AMP)....METAL GLAZE 15 5% 1/8W
R907	1-216-222-00	(SUB WOOFER)...METAL GLAZE 10K 5% 1/8W
R908	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R909	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R922	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R927	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R928	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R931	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R932	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R933	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R934	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R942	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R951	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R952	1-216-210-00	METAL GLAZE 3.3K 5% 1/8W
R953	1-216-158-00	(POWER AMP)....METAL GLAZE 22 5% 1/8W
R953	1-216-230-00	(SUB WOOFER)...METAL GLAZE 22K 5% 1/8W
R954	1-216-198-00	(POWER AMP)....METAL GLAZE 1K 5% 1/8W
R954	1-216-198-00	(SUB WOOFER)...METAL GLAZE 1K 5% 1/8W
R955	1-216-198-00	(POWER AMP)....METAL GLAZE 1K 5% 1/8W
R955	1-216-198-00	(SUB WOOFER)...METAL GLAZE 1K 5% 1/8W
R956	1-216-158-00	METAL GLAZE 22 5% 1/8W
R957	1-216-154-00	METAL GLAZE 15 5% 1/8W
R960	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R961	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R963	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R971	1-216-238-00	METAL GLAZE 47K 5% 1/8W
R972	1-216-238-00	METAL GLAZE 47K 5% 1/8W
R973	1-216-226-00	METAL GLAZE 15K 5% 1/8W
R974	1-216-234-00	METAL GLAZE 33K 5% 1/8W
R975	1-216-270-00	METAL GLAZE 1M 5% 1/8W
R976	1-216-270-00	METAL GLAZE 1M 5% 1/8W
R977	1-216-192-00	METAL GLAZE 560 5% 1/8W
R978	1-216-236-00	METAL GLAZE 39K 5% 1/8W
R979	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R980	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R981	1-216-244-00	METAL GLAZE 82K 5% 1/8W
R982	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R983	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R984	1-216-198-00	METAL GLAZE 1K 5% 1/8W
R985	1-216-230-00	METAL GLAZE 22K 5% 1/8W
R986	1-216-214-00	METAL GLAZE 4.7K 5% 1/8W
R987	1-216-166-00	METAL GLAZE 47 5% 1/8W
R988	1-216-182-00	METAL GLAZE 220 5% 1/8W
R989	1-216-182-00	METAL GLAZE 220 5% 1/8W
R991	1-216-222-00	METAL GLAZE 10K 5% 1/8W
R999	1-216-222-00	METAL GLAZE 10K 5% 1/8W
RV101	1-230-524-11	RES, ADJ, SOLID 22K
RV301	1-238-259-11	RES, ADJ, CARBON 10K
RV326	1-238-259-11	RES, ADJ, CARBON 10K
RV351	1-238-259-11	RES, ADJ, CARBON 10K
RV376	1-238-259-11	RES, ADJ, CARBON 10K
RY901	1-515-655-11	RELAY
S2	1-570-771-11	SWITCH (POWER)
S10	A-3239-952-A	CONTACT ASSY
S11	1-570-953-11	SWITCH, PUSH (1 KEY)(F/R)
S12	1-570-953-11	SWITCH, PUSH (1 KEY)(TAPE IN)

Ref.No.	Part No.	Description
S801	1-554-813-41	SWITCH, KEY BOARD (OFF)
S802	1-554-813-41	SWITCH, KEY BOARD (LOUD)
S803	1-554-813-41	SWITCH, KEY BOARD (SELECT)
S804	1-554-813-41	SWITCH, KEY BOARD (MUTE)
S805	1-554-813-41	SWITCH, KEY BOARD (LEVEL -)
S806	1-554-813-41	SWITCH, KEY BOARD (LEVEL +)
S807	1-554-813-41	SWITCH, KEY BOARD (1 INTRO)
S808	1-554-813-41	SWITCH, KEY BOARD (4 D.SCAN)
S809	1-554-813-41	SWITCH, KEY BOARD (2 REPEAT)
S810	1-554-813-41	SWITCH, KEY BOARD (5 SHUFF 1)
S811	1-554-813-41	SWITCH, KEY BOARD (3 BL.SKIP)
S812	1-554-813-41	SWITCH, KEY BOARD (6 SHUFF 2)
S813	1-554-813-41	SWITCH, KEY BOARD (SEEK-REW AMS)
S814	1-554-813-41	SWITCH, KEY BOARD (MAN-DISC REW)
S815	1-554-813-41	SWITCH, KEY BOARD (M.SCAN A.MEM)
S816	1-554-813-41	SWITCH, KEY BOARD (RESET)
S817	1-554-813-41	SWITCH, KEY BOARD (LOCAL METAL)
S818	1-554-813-41	SWITCH, KEY BOARD (MONO DOLBY)
S819	1-554-813-41	SWITCH, KEY BOARD (SEEK+ FF AMS)
S820	1-554-813-41	SWITCH, KEY BOARD (MAN+ DISC FF)
S821	1-554-813-41	SWITCH, KEY BOARD (EJECT)
S822	1-554-813-41	SWITCH, KEY BOARD (TUNER FM/AM)
S823	1-554-813-41	SWITCH, KEY BOARD (CD PLAY/PAUSE)
S824	1-554-813-41	SWITCH, KEY BOARD (TAPE PLAY/DIR)
SW1	1-553-510-00	SWITCH, SLIDE (10K/9K)
SW901	1-571-520-11	SWITCH, SLIDE (6dB/12dB/18dB)
SW902	1-571-521-11	SWITCH, SLIDE (80Hz/120Hz)
TP301	1-536-354-00	PIN, POST
TP351	1-536-354-00	PIN, POST
TP391	1-536-354-00	PIN, POST
X1	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)
X2	1-567-170-00	OSCILLATOR, CERAMIC (4.19MHz)
X101	1-567-250-11	OSCILLATOR, CERAMIC
X701	1-567-170-00	OSCILLATOR, CERAMIC (4.19MHz)

ACCESSORY & PACKING MATERIAL

*1-558-626-11	CORD, CONNECTION
3-336-617-01	BAG, PROTECTION
3-355-210-01	COVER (2), PIN JACK
*3-357-065-01	INDIVIDUAL CARTON
*3-357-067-01	CUSHION
*3-357-068-01	CUSHION (LOWER)
*3-357-069-01	SHEET, PROTECTION
3-566-347-00	COVER (A), CONNECTOR
3-751-455-11	MANUAL, INSTRUCTION (OPERATION)
3-751-455-41	MANUAL, INSTRUCTION (OPERATION)
3-751-456-11	MANUAL, INSTRUCTION (INSTALLATION)
3-751-456-41	MANUAL, INSTRUCTION (INSTALLATION)

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